SAMSUNG

LCD-Monitor

Chassis LS24BRB

Model 244T

SERVICE Manual

LCD Monitor

Fashion Feature

- Support Magic Color Pro
- Support PIP when the sources are Anaolg and Digital
- Magic Bright : 4steps used
- Magictune 4.0 and Pivot software in stalled
- Support Analog, Digital, Video, S-Video
- Support Component Video

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LS24BRB Service Manual

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1 Precautions

Follow these safety, servicing and ESD precautions to prevent damage and to protect against potential hazards such as electrical shock.

1-1 Safety Precautions

1-1-1 Warnings

1. For continued safety, do not attempt to modify the circuit board.
2. Disconnect the AC power and DC power jack before servicing.

1-1-2 Servicing the LCD Monitor

1. When servicing the LCD Monitor, Disconnect the AC line cord from the AC outlet.
2. It is essential that service technicians have an accurate voltage meter available at all times. Check the calibration of this meter periodically.

1-1-3 Fire and Shock Hazard

Before returning the monitor to the user, perform the following safety checks:

1. Inspect each lead dress to make certain that the leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the monitor.
2. Inspect all protective devices such as nonmetallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
3. Leakage Current Hot Check (Figure 1-1):

   WARNING : Do not use an isolation transformer during this test.

   Use a leakage current tester or a metering system that complies with American National Standards Institute (*ANSI C101.1, Leakage Current for Appliances*), and Underwriters Laboratories (*UL Publication UL1410, 59.7*).

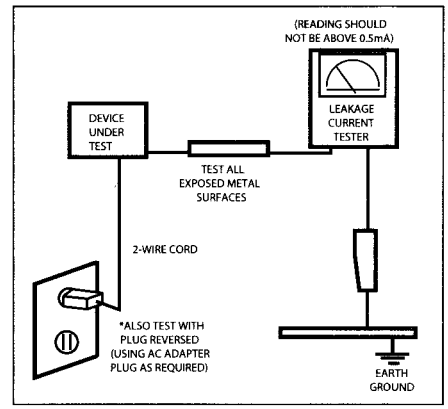
(READING SHOULD NOT BE ABOVE 0.5mA)
LEAKAGE CURRENT TESTER
DEVICE UNDER TEST
TEST ALL EXPOSED METAL SURFACES
2-WIRE CORD
*ALSO TEST WITH PLUG REVERSED (USING AC ADAPTER PLUG AS REQUIRED)
EARTH GROUND

Figure 1-1. Leakage Current Test Circuit

4. With the unit completely reassembled, plug the AC line cord directly into a 120V AC outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, conduit, etc.) and all exposed metal parts, including: metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat the test.

1-1-4 Product Safety Notices

Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection. The protection they give may not be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by ⚠ on schematics and parts lists. A substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire and/or other hazards. Product safety is under review continuously and new instructions are issued whenever appropriate.

1-2 Servicing Precautions

WARNING: An electrolytic capacitor installed with the wrong polarity might explode.

Caution: Before servicing units covered by this service manual, read and follow the Safety Precautions section of this manual.

Note: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions, always follow the safety precautions.

1-2-1 General Servicing Precautions

1. Always unplug the unit's AC power cord from the AC power source and disconnect the DC Power Jack before attempting to:
   (a) remove or reinstall any component or assembly, (b) disconnect PCB plugs or connectors, (c) connect a test component in parallel with an electrolytic capacitor.
2. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring is sometimes clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.
3. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the area around the serviced part has not been damaged.
4. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).
5. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500 V) to the blades of the AC plug.

   The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.
6. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.

1-3 Electrostatically Sensitive Devices (ESD) Precautions

Some semiconductor (solid state) devices can be easily damaged by static electricity. Such components are commonly called Electrostatically Sensitive Devices (ESD). Examples of typical ESD are integrated circuits and some field-effect transistors. The following techniques will reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. To avoid a shock hazard, be sure to remove the wrist strap before applying power to the monitor.
2. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of an electrostatic charge.
3. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESDs.
4. Use only a grounded-tip soldering iron to solder or desolder ESDs.
5. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ESDs.
6. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.
7. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.

   Caution: Be sure no power is applied to the chassis or circuit and observe all other safety precautions.
8. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting your foot from a carpeted floor can generate enough static electricity to damage an ESD.

1-4 Installation Precautions

1. For safety reasons, more than two people are required for carrying the product.

2. Keep the power cord away from any heat emitting devices, as a melted covering may cause fire or electric shock.

3. Do not place the product in areas with poor ventilation such as a bookshelf or closet. The increased internal temperature may cause fire.

4. Bend the external antenna cable when connecting it to the product. This is a measure to protect it from being exposed to moisture. Otherwise, it may cause a fire or electric shock.

5. Make sure to turn the power off and unplug the power cord from the outlet before repositioning the product. Also check the antenna cable or the external connectors if they are fully unplugged. Damage to the cord may cause fire or electric shock.

6. Keep the antenna far away from any high-voltage cables and install it firmly. Contact with the highvoltage cable or the antenna falling over may cause fire or electric shock.

7. When installing the product, leave enough space (10cm) between the product and the wall for ventilation purposes.
   A rise in temperature within the product may cause fire.

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2 Product Specifications

2-1 Fashion Feature

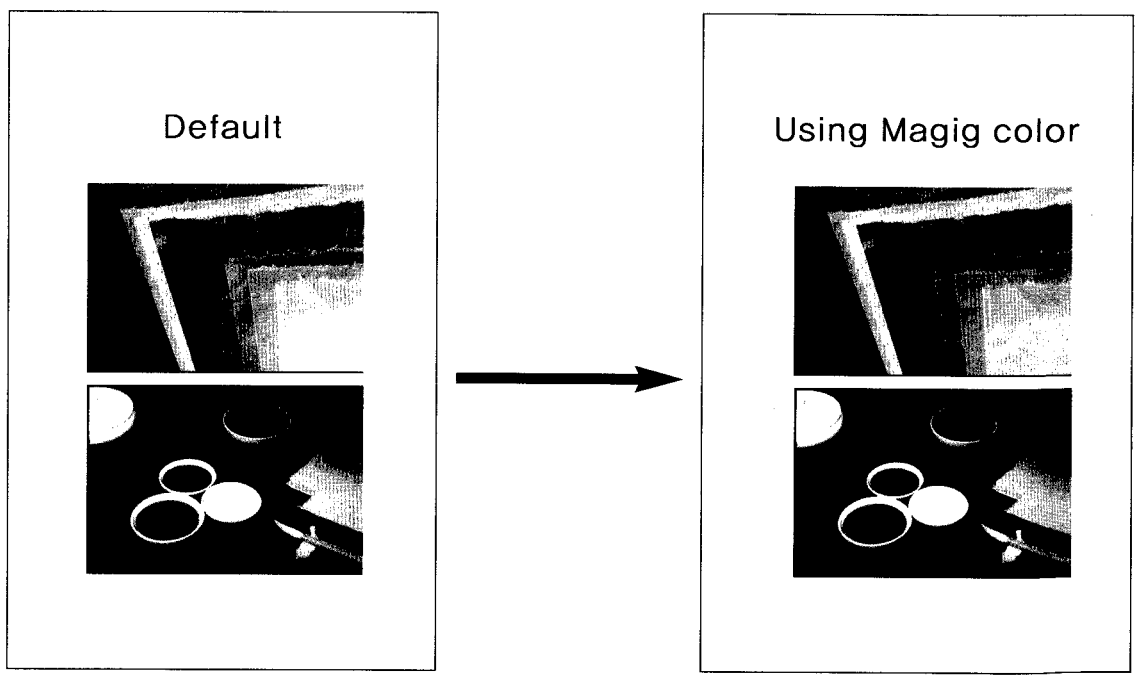
- Support Analog, Digital, Video, S-Video.
- Improved Response Time by Adopting 16ms.
- Support Magic Color Pro - Magic Color, Color Tone, Gamma, 6-Color, Color Weakness.
- Support PIP when the sources are Anaolg and Digital.
- Magic Bright : 4steps used - Test, Internet, Entertain, Custom
- Magictune 4.0 and Pivot software installed.
- Auto Pivot : When the monitor is rotated in 90 degree, the display LED and OSD also are autimatically rotates accordingly. This can be performed only when Magictune 4.0 and the Pivot software are running.
- Support Component Video.

2-2 Specifications

Item	Description
LCD Panel	TFT-LCD panel, RGB vertical stripe, normally black transmissive, 24-Inch viewable, 0.270 (H) x 0.270 (V) mm pixel pitch
Scanning Frequency	Horizontal : 31 kHz ~ 80 kHz (Automatic) Vertical : 56 Hz ~ 75 Hz (UXGA : 60 Hz)
Display Colors	16.7 Million colors
Maximum Resolution	Horizontal : 1920 Pixels Vertical : 1200 Pixels
Input Signal	Analog / Digital / Video / S-Video / Component video
Input Sync Signal	Seperate H/V sync, Composite H/V, Sync-on-Green, Automatic synchroniza tion whitout external swith of sync type Support Video mode : NTSC / PAL / SECAM / PAL M / PAL N / NT43 / PAL60 support DVI mode : 480i/p,720p@50Hz, 720p@60Hz , 1080i@50Hz 1080i@60Hz (Support HDCP) Level : TTL level
Maximum Pixel Clock rate	205 MHz
Active Display Horizontal/Vertical	518.4(H) x 324(W) mm
AC power voltage & Frequency	AC 90 ~ 264 Volts, 60/50 Hz
Power Consumption	120W (Max)
Dimensions Set (W x D x H) A-TYPE Set (New HAS stand) B-TYPE Set (Old HAS stand)	 560.4 x 247.1 x 443.5 mm / 366.0 x 247.1 x 519.2 mm (PIVOT) 560.4 x 255.0 x 506.0 mm / 366.0 x 255.0 x 603.0 mm (PIVOT)
Weight (Set/Package) A-TYPE Set (New HAS stand) Package B-TYPE Set (Old HAS stand) Package	 9.45kg (After installation of Stand, Head weight : 6.65kg) 12.2 kg 9.55kg (After installation of Stand, Head weight : 6.65kg) 12.4 kg
Environmental Considerations	Operating Temperature : 0°F ~ 122°F (0°C ~ 50°C) Operating Humidity : 20% ~ 90% Storage temperature : -4°F ~ 149°F (-20°C ~ 65°C) Storage Humidity : 5% ~ 90%
- Designs and specifications are subject to change without prior notice.	

2-3 LS24BRB feature

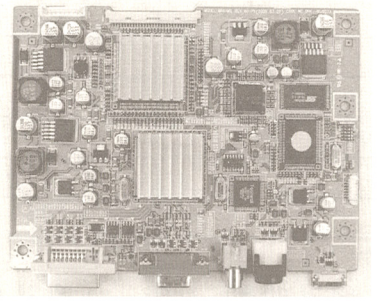
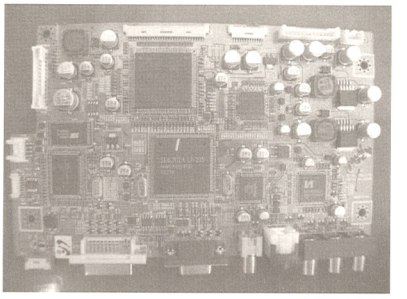
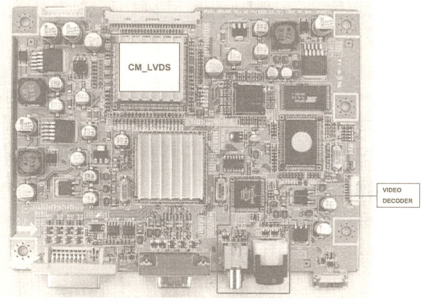
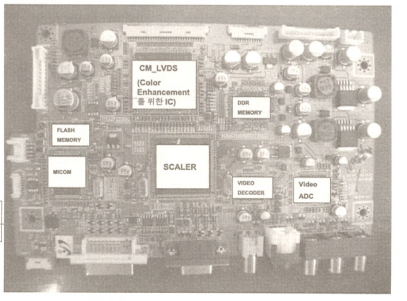
No	Feature	Feature	Operating method
1	Auto Auto	If Brahms turns on in some resolution for the first time, it can execute Auto adjustment automatically for the high Quality	
2	Auto Power on/off	Brahms can check the change of Source Automatically and change the source to the active Input	
3	Wall mount	Brahms supports Wall mount (100mmx100mm VESA-compliant mounting interface pad.)	
4	Gamma & Color temper-ature Fine Adjust	Brahms supports 9-Step Fine Adjustment for Gamma & Color temperature	Magic tune 4.0
5	Magic Bright	Brahms supports 4 different Brightness Mode (Text / Internet / Entertain / Custom)	
6	Sharpness	Adjust the Sharpness	
7	Auto Pivot	As Brahms has sensor IC for Pivot, 1) if Brahms rotates 90° , 2) MCU can detect the current status through sensor IC, 3) Magic tune 4.0 &Pivot Software can make change Screen to the rotated degrees automatically	It must be installed Magic tune 4.0 and Pivot Software to the PC
8	Magic Color	Off - Returns to the original mode Demo - The screen before applying MagicColor appears on the right and the screen after applying MagicColor appears on the left Full - Displays vivid natural color with clearness Intelligent - Displays not only vivid natural color but also more realistic natural skin color with clearness	Color menu of Magictune 4.0



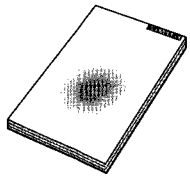
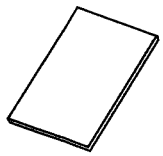
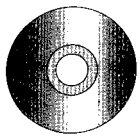
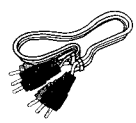
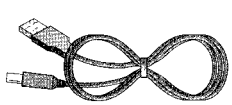
2-4 Spec Comparison

Key Specification		
	LS21BRBS **214T**	**LS24BRB** **244T**
Screen Size	21.3"	24"
Brigtness	300 cd/㎡	500 cd/㎡
Contrast	700:1	1000:1
Response Time	16ms	16ms
Input Source	Analog/Digital/Av/S-Video	Analog/Digital/Av/S-Video/ Component Video
Magic Color	O	O
Magic Pivot	O	O
Magic Tune	4.0 version	4.0 version
6-Color	O	O
Color Weakness	O	O
Gamma	8 steps -0.2/ -0.1/ 0/ +0.1/ +0.2/ +0.3/ +0.4/ +0.5/ +0.6	8 steps -0.2/ -0.1/ 0/ +0.1/ +0.2/ +0.3/ +0.4/ +0.5/ +0.6
Magic Bright	4 steps Text/ Internet/ Entertain/ Custom	4 steps Text/ Internet/ Entertain/ Custom
Color Tone	6 steps Warm2/ Warm1/ Normal/ Cool1/ Cool2/ Cool3/ Cool4	6 steps Warm2/ Warm1/ Normal/ Cool1/ Cool2/ Cool3/ Cool4

2-5 Spec Comparison to the Other Models

Model	LS20BRBS (214T)	LS24BRB (244T)
Response	16 ms	16 ms
Input Source	Analog/Digital/Av/S-Video	Analog/Digital/Av/S-Video/ Component Video
Magic Pivot	O	O
Magic Tune	Ver 4.0 Applied	Ver 4.0 Applied
6-Color	O	O
Color Weakness	O	O
PBA		
Additional portion		

2-6 Option Specification

Item	Item Name	CODE.NO	Remark
	Quick Setup Guide	BH68-00376L	
	Warranty Card (Not available in all locations)	BH68-00261F	
	User's Guide, Monitor Driver, Natural Color software, MagicTune™ software	BN59-00395P	
	D-Sub(15 Pin) Cable	3701-001219	
	Power Cord	3903-000085	
	DVI Cable	BN39-00246F	
	Component Video cable	BN39-00279A	
	USB cable	BN39-00397A	

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3 Alignments and Adjustments

This section of the service manual explains how to use the RS232 JIG.
This function is needed for AD board change and program memory (IC200) change.

3-1 Required Equipment

The following equipment is necessary for adjusting the monitor:

- Computer with Windows 95, Windows 98, Windows NT, Windows 2000, or Windows XP.
- MTI-2031 DDC MANAGER JIG

3-2 Automatic Color Adjustment

To input video, use 16 gray or any pattern using black and white.

1. Press and hold down both the MENU and the ▲ keys at the same time for about 5 seconds.
2. A blinking display informs you that the automatic color adjustment process is completed.
3. The automatic color adjustment feature is also available in the service function.

3-3 DDC EDID Data Input

1. Input DDC EDID data when replacing AD PCB.
2. Receive/Download the proper DDC file for the model from HQ quality control department. Install the below jig (Figure 1) and enter the data.

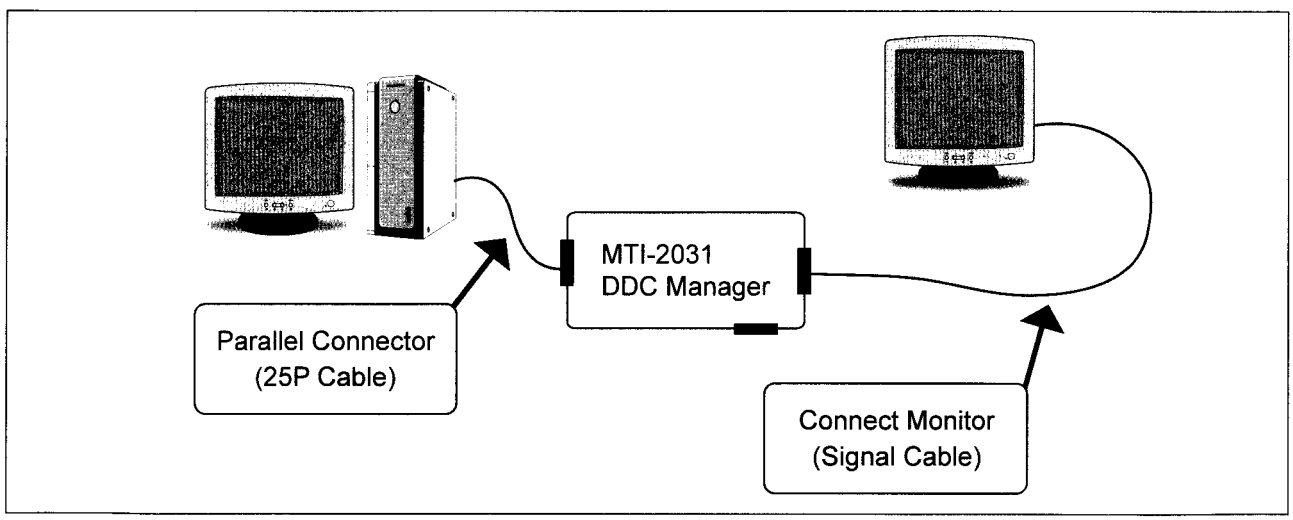


Figure 1.

3-4 OSD Adjustment When Replacing Panel

1. Set the Brightness and Contrast to zero,
   and push the MENU button more than 5 seconds.
   The Function OSD is displayed like Figure 2.
2. Select the Panel Information.
3. Select a panel that you want to replace with.

3-5 OSD Adjustment When Replacing Lamp Only

1. Set the Brightness and Contrast to zero,
   and push the MENU button more than 5 seconds.
   The Function OSD is displayed like Figure 2.
2. Select the Panel Information.
3. Select the upper lamp/ lower lamp.

-. Note : Please perform Automatic Color Adjustment when replacing the panel and main board.

3-6 Service Function Spec.

3-6-1 How to Display Service Function OSD

1. The OSD is displayed just like in 3-2.
2. To exit the service function, press the POWER key and restart the Monitor.

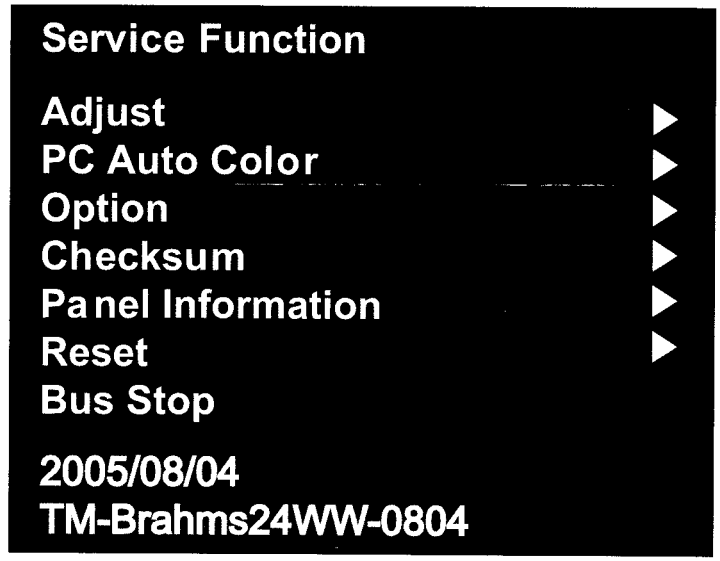


Figure 2. The example of service function OSD

3-6-2 How to Control Service Function OSD

Use the ▲ or ▼ buttons to select an item that you want and press the Enter button.

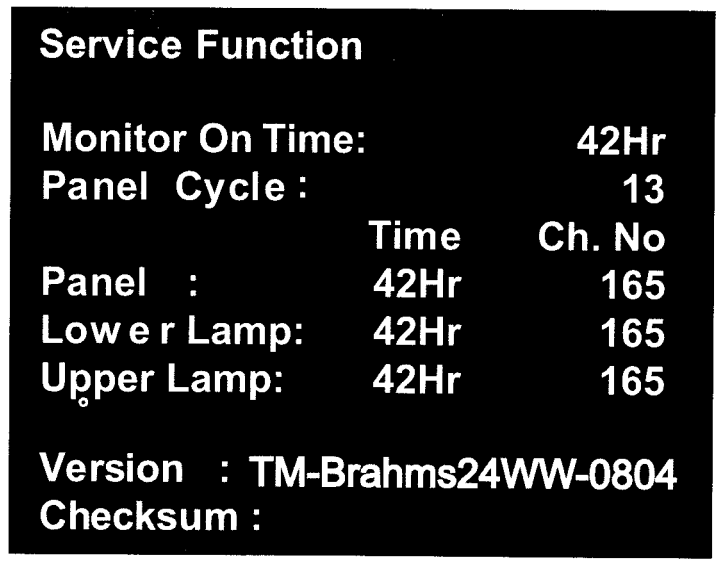
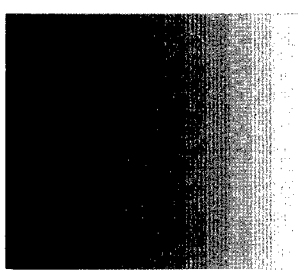
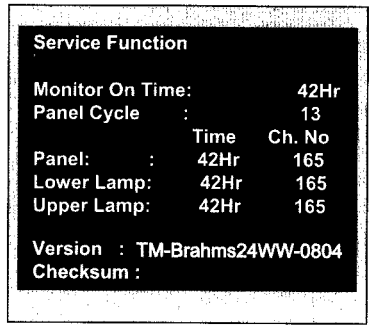


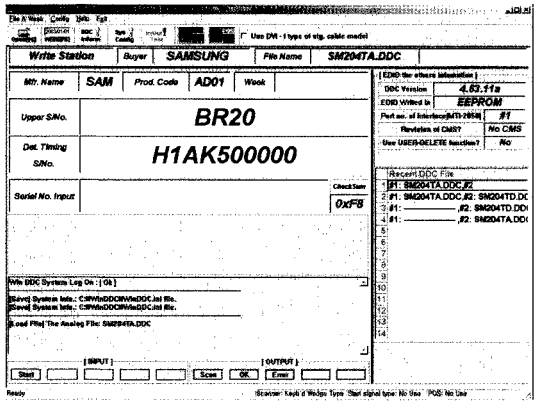
Figure 3. The display of the Panel Information in the Function OSD

3-7 Hidden Key list

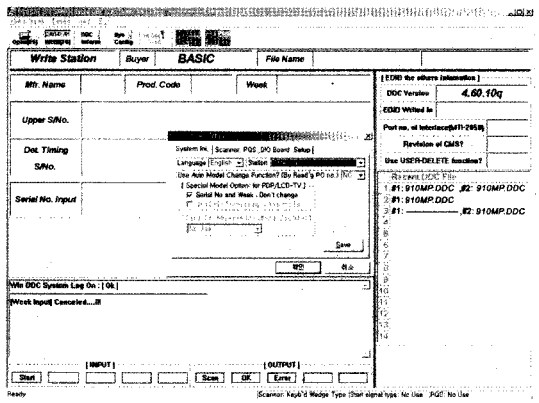
No	Function	Action method
1	Hidden Service Function 	-. After setting in turn on to brightness and contrast '0' , push the 'menu' button more than 5 seconds -. Service Function appear at left upper -. OSD which the basic adjustment is added 1) Adjust 2) PC Auto color 3) Option 4) Checksum 5) Panel Information 6) Reset 7) Bus Stop *. 2005/04/20: MCU firmware date *. TM-BRAMS24WW-0804: MCU firmware version information (this information must be appended due to a compatibility problem report.)
2	**Hidden Service Function (1)** 	**Move to the (-) / (+) key, select the 'Enter' key** **1) Auto adjustment** **2) PC Auto Color :** **in case that color of all screen is wrong,** **excute the PC Auto color at 16 gray pattern of 1600*1200 60Hz** **(refer to attach left 16gray pattern)** **3) Option: Spread Step / Spread Span (for EMI test)** **4) Checksum: MCU firmware checksum information** **(this information must be appended due to a compatibility problem report.)**

No	Function	Action method
3	Hidden Service Function (1) *.When Panel Information selected 	5) Panel Information various function are included in information. 1. Monitor On Time : Power On Time 2. Panel Cycle : Panel On/off time (Power off, Mode change, DPMS on/off ...) 3. Panel : Panel on Time (when the panel is changed , select the Reset) 4. Lower lamp : Lower lamp on time (when the Lower lamp is changed , select the Reset) 5. Upper lamp : Upper Lamp on time (when the Upper Lamp is changed , select the Reset) 6) Reset: Factory reset 7) Bus Stop: The communication Line ON / OFF

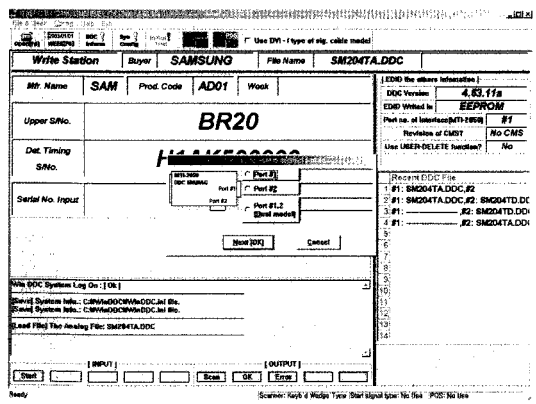
3-8 EDID Installation with Windows Program



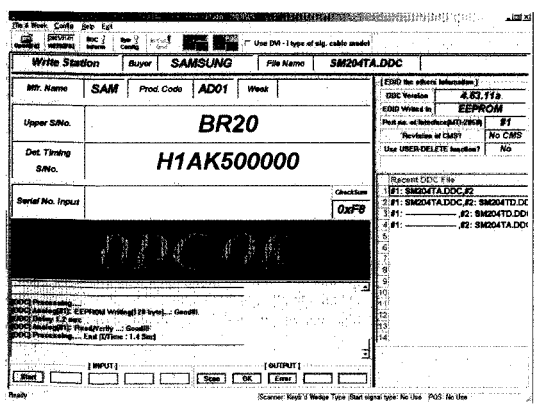
1. Execute "WinDDC.exe"



2. Click "Sys Config"
   Select "Station : Write station"
   Check "Serial No and Week : Don't change"
   Click "Save"



3. Click "Open" icon.
   Select "Connected Port #1" and Next "OK".
   * File Name - SM244TA1.DDC : Analog
   - SM244TD1.DDC : Digital
   Press enter key on your keyboard.



4. Confirm the "DDC OK".

- After Replacing the Main Board

- EDID Installation (Analog and Digital)

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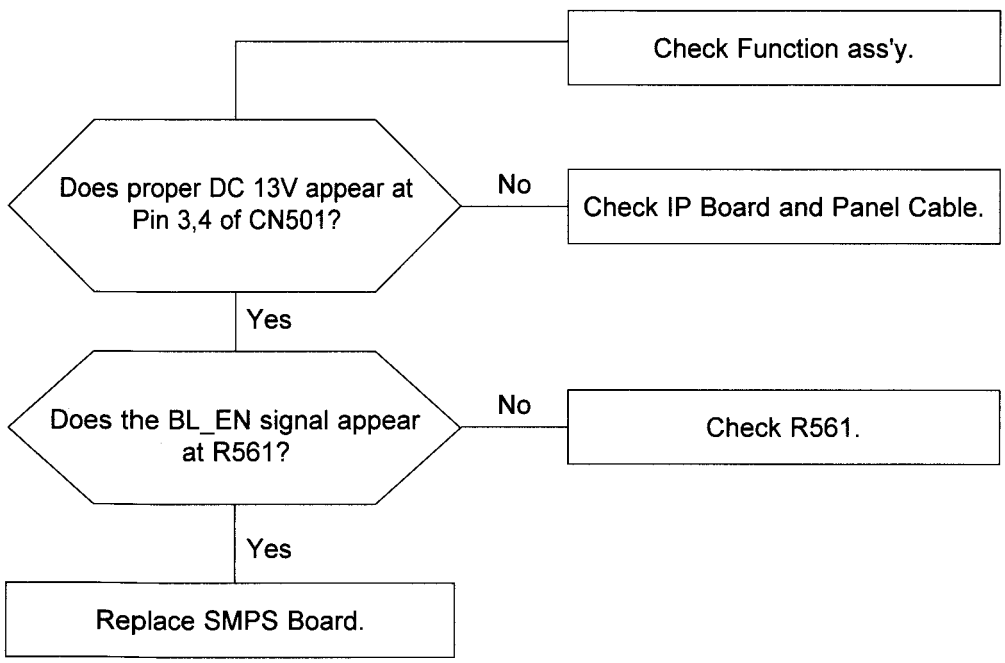
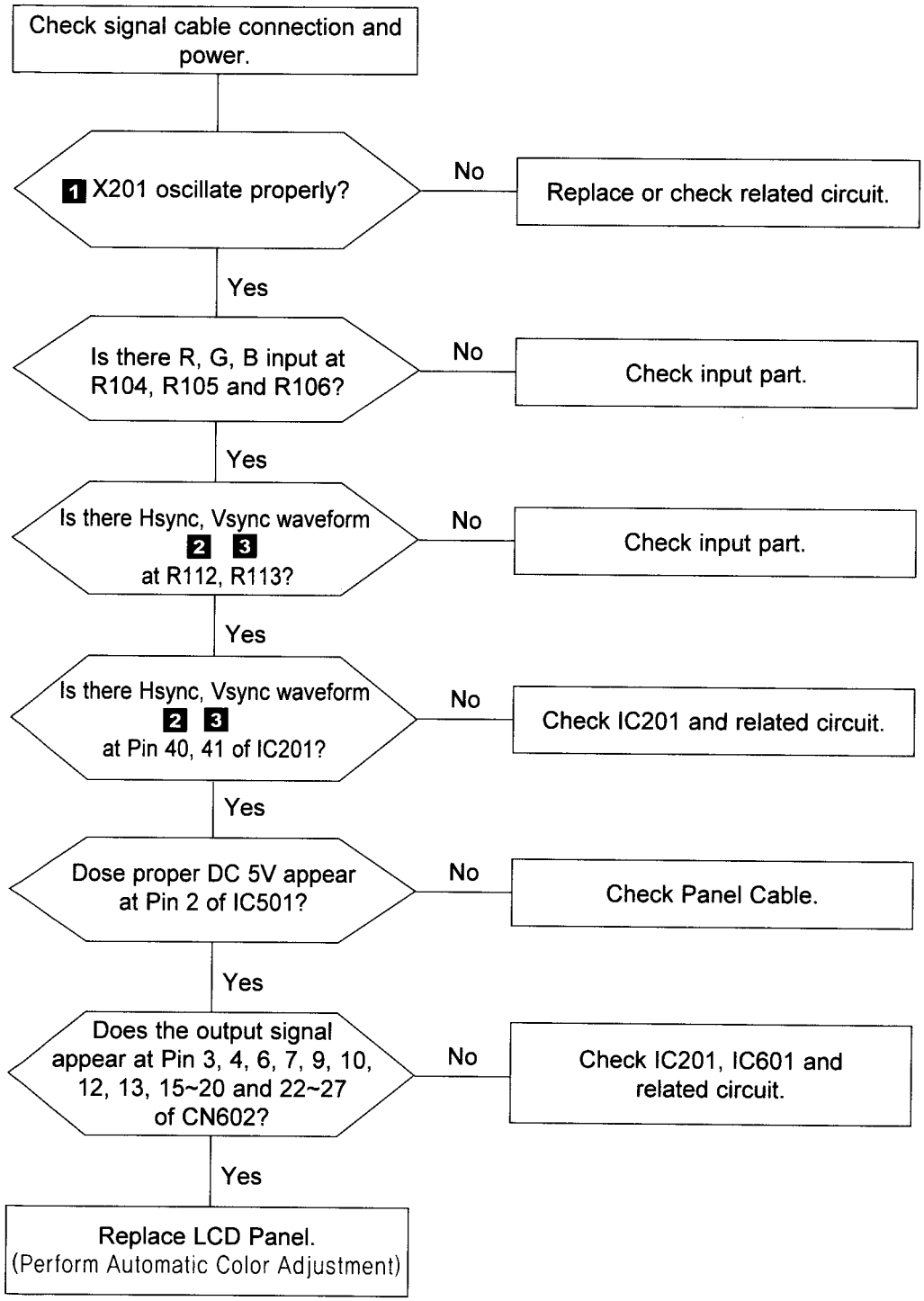
4 Troubleshooting

Notes:
1. Before troubleshooting, setup the PC's display as below.
   - Resolution: 1920 x 1200
   - H-frequency: 75 kHz
   - V-frequency: 60 Hz
2. If no picture appears, make sure the power cord is correctly connected.
3. Check the following circuits.
   - No raster appears: Function PBA, Main PBA, Inverter
   - 5V develop but no screen: Main PBA
   - 13V, 5V does not develop: IP Board, Main PBA

4-1 No Power

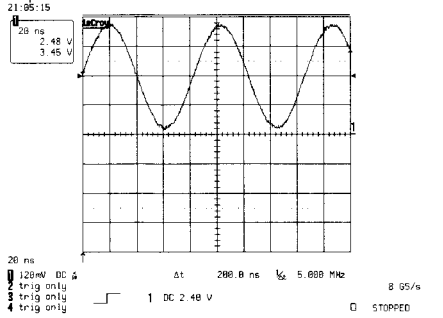


4-2 No Video (ANALOG)

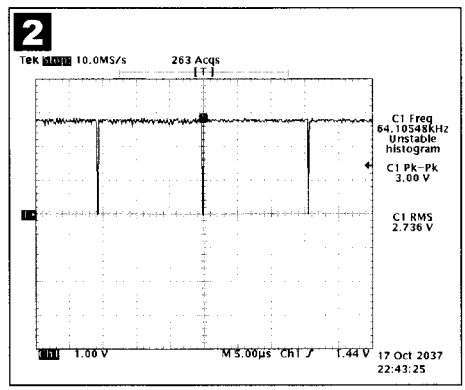

Check signal cable connection and power.
1 X201 oscillate properly?
No
Replace or check related circuit.
Yes
Is there R, G, B input at R104, R105 and R106?
No
Check input part.
Yes
Is there Hsync, Vsync waveform 2 3 at R112, R113?
No
Check input part.
Yes
Is there Hsync, Vsync waveform 2 3 at Pin 40, 41 of IC201?
No
Check IC201 and related circuit.
Yes
Dose proper DC 5V appear at Pin 2 of IC501?
No
Check Panel Cable.
Yes
Does the output signal appear at Pin 3, 4, 6, 7, 9, 10, 12, 13, 15~20 and 22~27 of CN602?
No
Check IC201, IC601 and related circuit.
Yes
Replace LCD Panel.
(Perform Automatic Color Adjustment)

WAVEFORMS

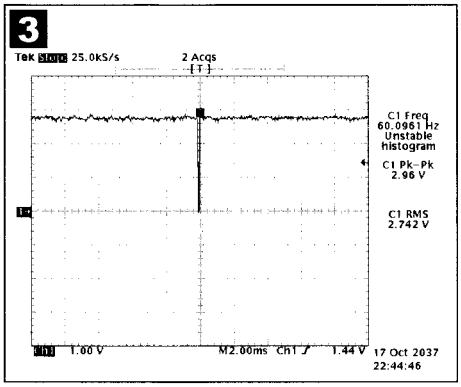
1



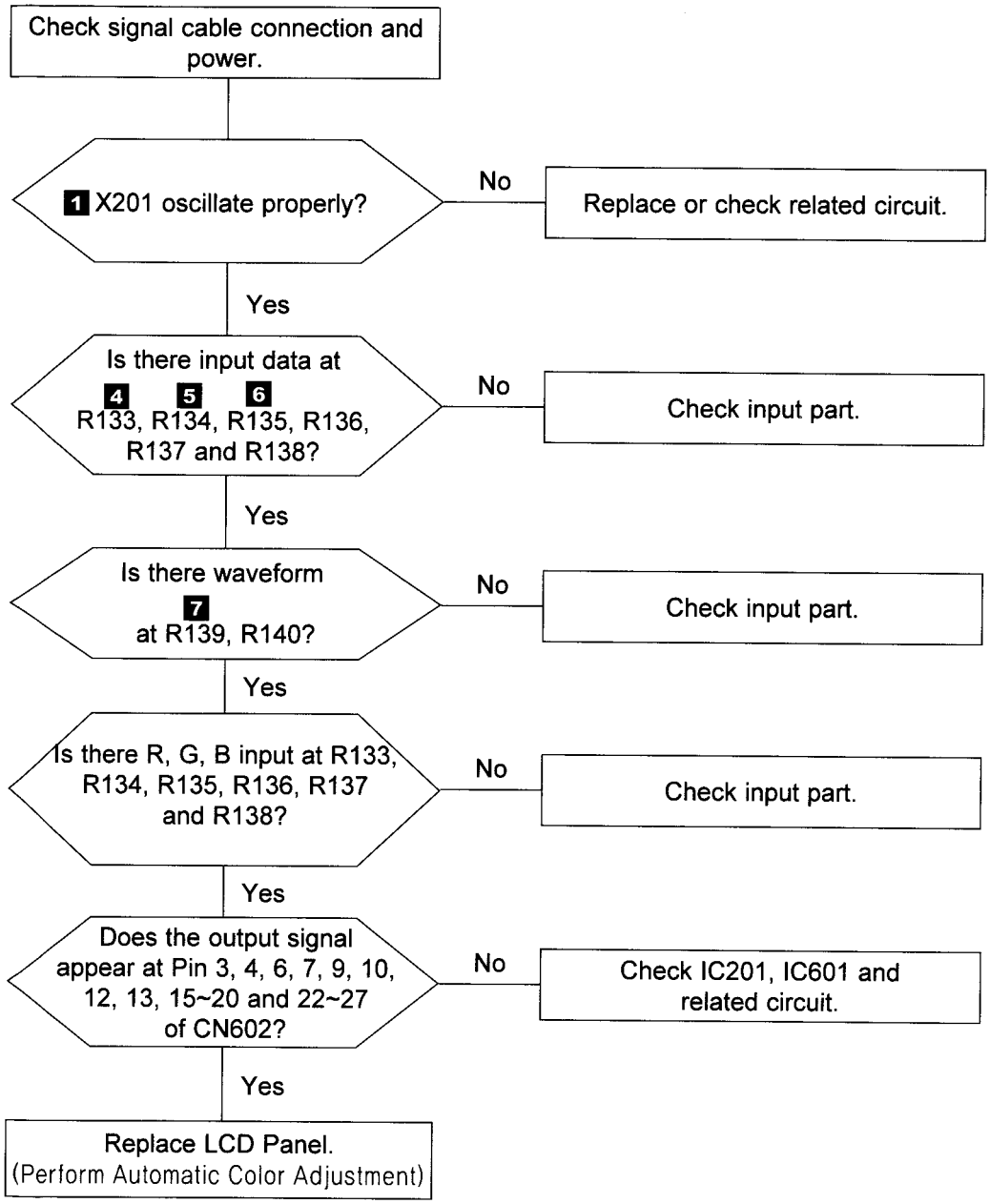
2



3

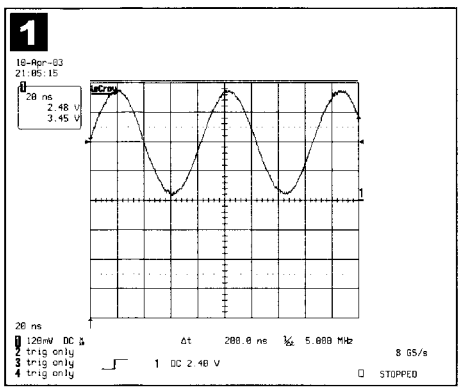


4-3 No Video (DIGITAL)

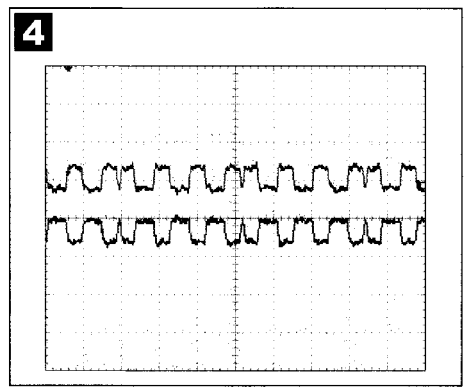

Check signal cable connection and power.
1 X201 oscillate properly?
No
Replace or check related circuit.
Yes
Is there input data at 4 5 6 R133, R134, R135, R136, R137 and R138?
No
Check input part.
Yes
Is there waveform 7 at R139, R140?
No
Check input part.
Yes
Is there R, G, B input at R133, R134, R135, R136, R137 and R138?
No
Check input part.
Yes
Does the output signal appear at Pin 3, 4, 6, 7, 9, 10, 12, 13, 15~20 and 22~27 of CN602?
No
Check IC201, IC601 and related circuit.
Yes
Replace LCD Panel.
(Perform Automatic Color Adjustment)

WAVEFORMS

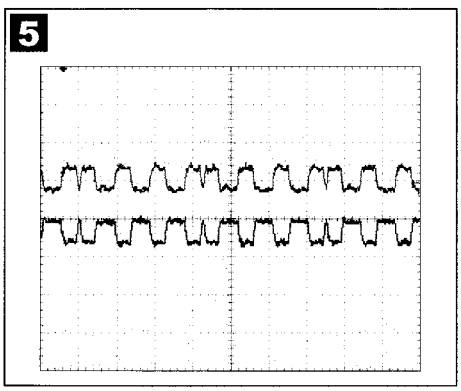
1



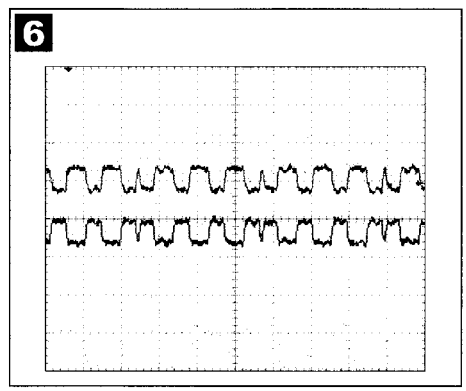
4



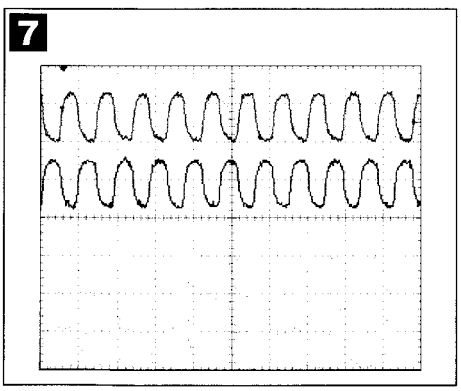
5



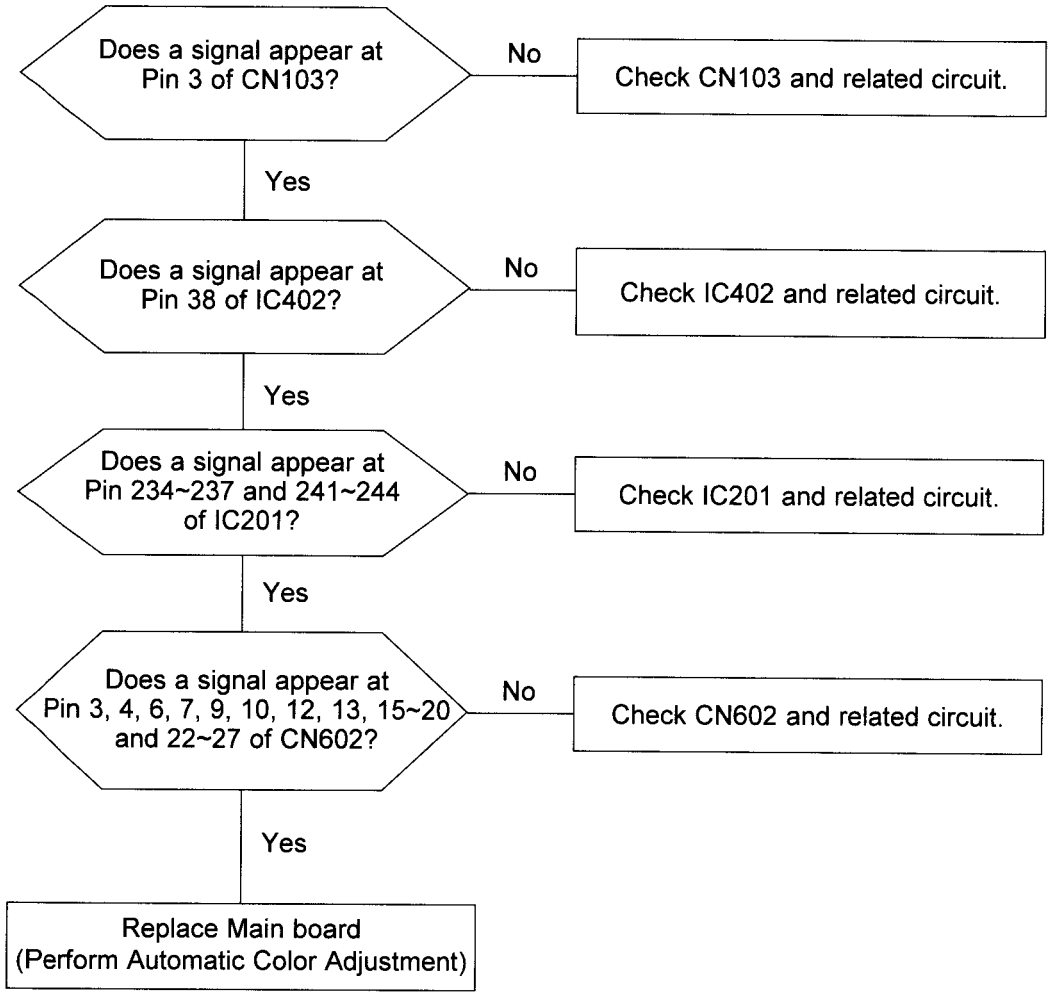
6



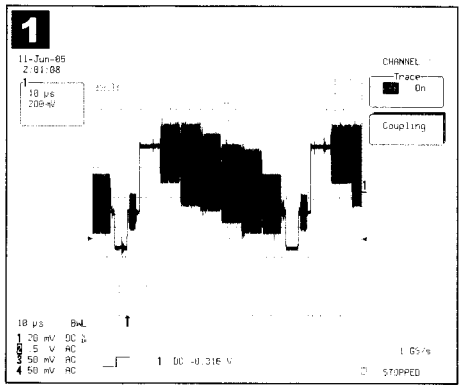
7

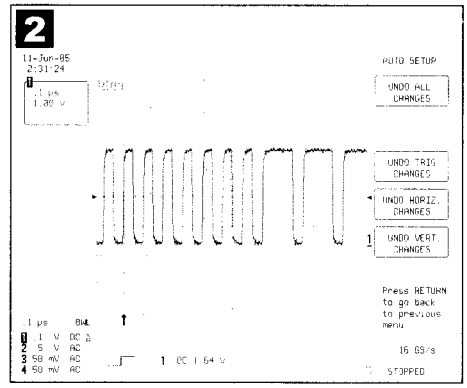


4-4 No Picture (Video Signal)

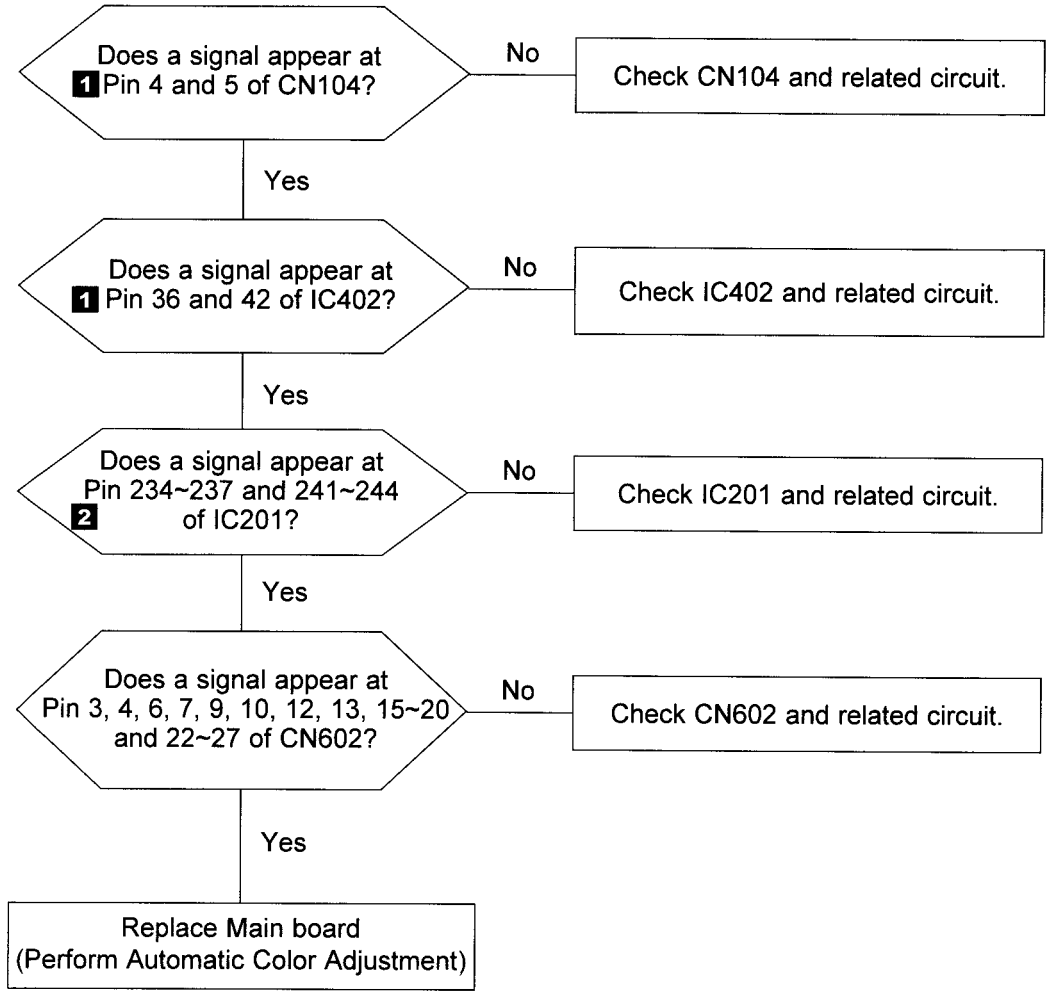

Does a signal appear at Pin 3 of CN103?
No
Check CN103 and related circuit.
Yes
Does a signal appear at Pin 38 of IC402?
No
Check IC402 and related circuit.
Yes
Does a signal appear at Pin 234~237 and 241~244 of IC201?
No
Check IC201 and related circuit.
Yes
Does a signal appear at Pin 3, 4, 6, 7, 9, 10, 12, 13, 15~20 and 22~27 of CN602?
No
Check CN602 and related circuit.
Yes
Replace Main board (Perform Automatic Color Adjustment)

WAVEFORMS

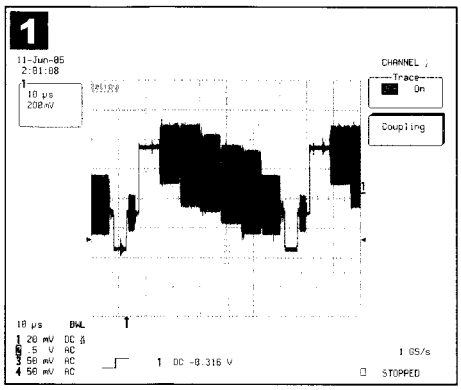

1
11-Jun-05
2:01:08
CHANNEL
Trace
On
Coupling
10 µs
200 mV
10 µs BWL
1 20 mV DC
2 .5 V AC
3 50 mV AC
4 50 mV AC
1 DC -0.316 V
1 GS/s
STOPPED

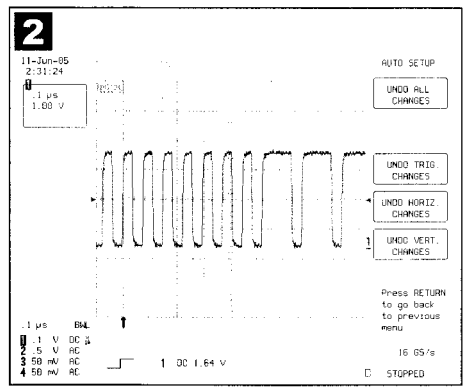

2
11-Jun-05
2:31:24
AUTO SETUP
UNDO ALL CHANGES
UNDO TRIG CHANGES
UNDO HORIZ CHANGES
UNDO VERT CHANGES
Press RETURN to go back to previous menu
1 µs BWL
1 1 V DC
2 5 V AC
3 50 mV AC
4 50 mV AC
1 DC 1.64 V
16 GS/s
STOPPED

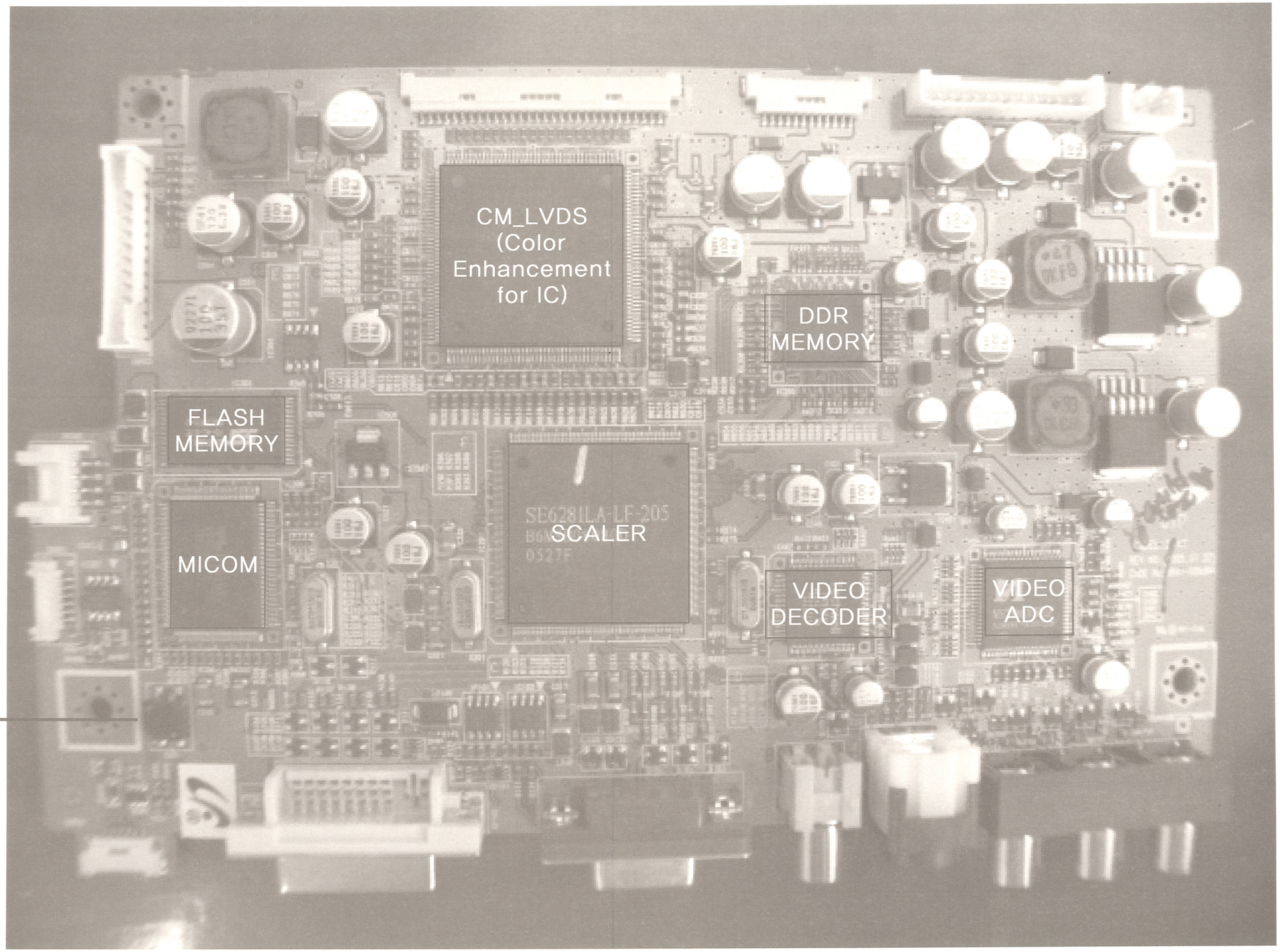
4-5 No Picture (S-Video Signal)



WAVEFORMS


1
11-Jun-05
2:01:08
10 µs
200 mV
CHANNEL 1
Trace
On
Coupling
10 µs
BWL
1 20 mV DC
2 .5 V AC
3 50 mV AC
4 50 mV AC
1 DC -8.316 V
1 GS/s
STOPPED


2
11-Jun-05
2:31:24
.1 µs
1.00 V
AUTO SETUP
UNDO ALL CHANGES
UNDO TRIG. CHANGES
UNDO HORIZ. CHANGES
UNDO VERT. CHANGES
Press RETURN to go back to previous menu
.1 µs
BWL
1 .1 V DC
2 .5 V AC
3 50 mV AC
4 50 mV AC
1 DC 1.64 V
16 GS/s
STOPPED

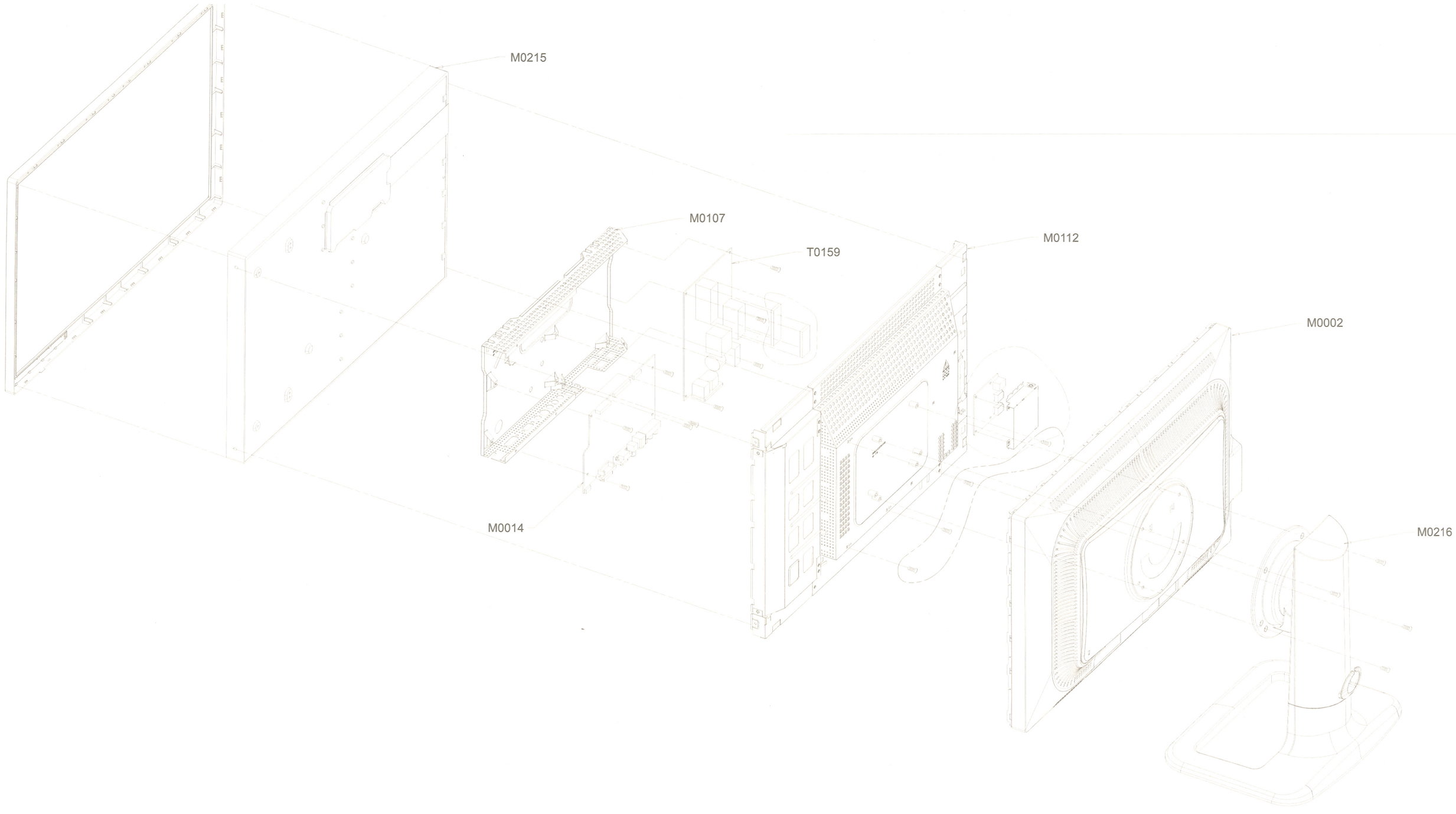

CM_LVDS
(Color
Enhancement
for IC)
DDR
MEMORY
FLASH
MEMORY
MICOM
SE6281LA-LF-205
SCALER
VIDEO
DECODER
VIDEO
ADC
PIVOT
SENSER
(Auto Pivot
for IC)
Digital
Analog
Video
S-Video
Component

Memo

5 Exploded View and Parts List

-You can search for updated part codes through ITSELF web site.
URL : http://itself. sec. samsung.co.kr

5-1 Exploded View



5-2 Parts List

Location.No	CODE-NO	SPECIFICATION & DESCRIPTION	Q'TY	REMARK
T0003	BN96-02663A	ASSY COVER P-FRONT;244T,ABS,HB,GR70,SVM-	1	SA
M0215	BN07-00250A	LCD-PANEL;LTM240M1-L02-A05,NB243T,8bit,5	1	SA
M0107	BN61-02102A	BRACKET-PCB;244T,SECC,T0.8	1	SNA
T0159	BN96-02723A	ASSY PCB P-SMPS;Free Voltage SMPS,LS24BR	1	SNA
M0014	BN94-00744D	ASSY PCB MAIN;LS24BRBAS/*	1	SA
M0112	BN96-02664A	ASSY SHIELD P-PCB;244T,SECC	1	SNA
M0002	BN90-00747G	ASSY COVER REAR;LS24BRBAS/*,SILVER	1	SNA
M0216	BN90-00748D	ASSY STAND;LS24BRBAS/XAA,OLD STNAD	1	SNA

6 Electrical Parts List

-You can search for updated part codes through ITSELF web site.
URL : http://itself.sec.samsung.co.kr/

6-1 LS24BRB Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
0		LS24BRBAS/XAA	244T,UXD2/S24A3-LBR,24,LCD-MO,UNITED STA		
1	M0001	BN90-00744H	ASSY COVER FRONT;LS24BRBAS/*,SILVER	1	SNA
..2	T0003	BN96-02663A	ASSY COVER P-FRONT;244T,ABS,HB,GR70,SVM-	1	SA
1	M0002	BN90-00747G	ASSY COVER REAR;LS24BRBAS/*,SILVER	1	SNA
..2	M0006	BN63-02234A	COVER-REAR;244T,ABS,T2.8,HB,GR70,SVM-114	1	SNA
1	M0216	BN90-00748D	ASSY STAND;LS24BRBAS/XAA,OLD STNAD	1	SNA
..2	M0142	BN96-00849E	ASSY MISC P-STAND;BRAHMS 244T,ABS HB GR7	1	SA
1	M0017	BN91-00886E	ASSY CHASSIS;LS24BRBAS/*	1	SA
..2	M0107	BN61-02102A	BRACKET-PCB;244T,SECC,T0.8	1	SNA
..2	M0014	BN94-00744D	ASSY PCB MAIN;LS24BRBAS/*	1	SA
...3	T0245	0202-001366	SOLDER-WIRE FLUX;-,RS60S,D1.2,63Sn/37Pb,	0.03	SNA
...3	CIS5	0202-001375	SOLDER-CREAM;RMA-20-21L,S63,-,Sn63/Pb36.	2.37	SNA
...3	CN102	3701-001173	CONNECTOR-DVI;24P,3R,FEMALE,ANGLE,AUF	1	SA
...3	CN101	3701-001219	CONNECTOR-DSUB;15P,3R,FEMALE,ANGLE,AUF	1	SA
...3	CN706	3711-000024	HEADER-BOARD TO CABLE;BOX,3P,1R,2.5MM,ST	1	SA
...3	CN501	3711-004122	HEADER-BOARD TO CABLE;BOX,14P,1R,2mm,STR	1	SA
...3	CN503	3711-004122	HEADER-BOARD TO CABLE;BOX,14P,1R,2mm,STR	1	SA
...3	CN705	3722-001547	JACK-PIN;3P,3.5mm,AU,GRN/BLU/RED,-	1	SA
...3	CN103	3722-001783	JACK-PIN;1P,-,SN,YEL,-	1	SA
...3	CN104	3722-002275	JACK-DIN;4P,-,SN,BLK,-	1	SA
...3	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	4	SNA
...3	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	5	SNA
...3	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	3	SNA
...3	M0081	6003-001439	SCREW-TAPTITE;BH,+,S,M4,L8,ZPC(YEL)	1	SNA
...3	T0174	BN97-00368K	ASSY SMD;LS24BRBAS/*	1	SNA
....4	D101	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	SA
....4	D102	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	SA
....4	D103	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	SA
....4	D104	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	SA
....4	D105	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	SA
....4	D106	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	SA
....4	D107	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	SA
....4	D108	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	SA
....4	D109	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	SA
....4	D110	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	SA
....4	D111	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	SA
....4	D112	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	SA
....4	D113	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	SA
....4	D114	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	SA
....4	D117	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	SA
....4	D118	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	SA
....4	D712	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	SA
....4	D713	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	SA
....4	D502	0402-000553	DIODE-RECTIFIER;SS24,40V,2.0A,DO-214AA	1	SA
....4	D503	0402-000553	DIODE-RECTIFIER;SS24,40V,2.0A,DO-214AA	1	SA
....4	D540	0402-000553	DIODE-RECTIFIER;SS24,40V,2.0A,DO-214AA	1	SA
....4	ZD106	0402-000553	DIODE-RECTIFIER;SS24,40V,2.0A,DO-214AA	1	SA
....4	D115	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225MW,SOT-2	1	SA
....4	ZD102	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225MW,SOT-2	1	SA
....4	ZD103	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225MW,SOT-2	1	SA
....4	ZD104	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225MW,SOT-2	1	SA
....4	ZD105	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225MW,SOT-2	1	SA
....4	ZD401	0403-001052	DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2	1	SA
....4	ZD731	0403-001052	DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2	1	SA
....4	ZD732	0403-001052	DIODE-ZENER;RD8.2MB,7.7-8.7V,200MW,SOT-2	1	SA
....4	ZD502	0403-001411	DIODE-ZENER;-,5.49-5.73V,200MW,SOD-323,T	1	SA
....4	ZD101	0403-001435	DIODE-ZENER;QZX363C5V6,5.32-5.88V,200MW,	1	SA
....4	ZD107	0403-001435	DIODE-ZENER;QZX363C5V6,5.32-5.88V,200MW,	1	SA

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	ZD501	0406-001061	DIODE-TVS;MMQA5V6T3,5.32/5.6/5.88V,24W,S	1	SA
....4	ZD108	0406-001163	DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD	1	SA
....4	ZD109	0406-001163	DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD	1	SA
....4	ZD733	0406-001163	DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD	1	SA
....4	Q101	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	SA
....4	Q102	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	SA
....4	Q103	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	SA
....4	Q502	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	SA
....4	Q550	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	SA
....4	Q602	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	SA
....4	Q409	0505-000275	FET-SILICON;SI4435DY,P,-30V,+-8.0A,0.014	1	SA
....4	Q409	0505-000275	FET-SILICON;SI4435DY,P,-30V,+-8.0A,0.014	1	SA
....4	Q409	0505-001170	FET-SILICON;SI9933ADY-T1,P,-20V,3.4A,0.0	1	SA
....4	IC104	0801-002267	IC-CMOS LOGIC;74LCX14,-,SOIC,14P,150MIL,	1	SA
....4	IC104	0801-002404	IC-CMOS LOGIC;74VHC4066,ANALOG SWITCH,SO	1	SA
....4	IC104	0801-002478	IC-CMOS LOGIC;7SZ14,SCHMITT TRIGGER,SOT2	1	SA
....4	IC104	0801-002478	IC-CMOS LOGIC;7SZ14,SCHMITT TRIGGER,SOT2	1	SA
....4	IC104	0801-002709	IC-CMOS LOGIC;74HC373,D FLIP-FLOP,TSSOP,	1	SA
....4	IC520	0903-001413	IC-MICROCONTROLLER;WT6601F,-,QFP,128P,20	1	SA
....4	IC108	1002-001398	IC-A/D CONVERTER;MST9883CR-110,24Bit(8x3	1	SA
....4	IC112	1103-000129	IC-EEPROM;24C02,256x8,SOP,8P,5x4mm,4.5/5	1	SA
....4	IC112	1103-000129	IC-EEPROM;24C02,256x8,SOP,8P,5x4mm,4.5/5	1	SA
....4	IC112	1103-001314	IC-EEPROM;24C16,2Kx8,SOP,8P,5x4mm,2.7/5.	1	SA
....4	IC113	1105-001674	IC-DRAM;EM6A9320BI,4Mx32Bit,FBGA,144P,12	1	SA
....4	IC115	1107-001530	IC-FLASH MEMORY;39VF080,1Mx8Bit,TSOP,40P	1	SA
....4	IC304	1203-001559	IC-RESET;DS1834A,SOIC,8P,150MIL,PLASTIC,	1	SA
....4	T0087	1203-002351	IC-POSI.FIXED REG.;LF25C,DPAK,3P,240MIL,	1	SA
....4	T0087	1203-002351	IC-POSI.FIXED REG.;LF25C,DPAK,3P,240MIL,	1	SA
....4	IC502	1203-002796	IC-DC/DC CONVERTER;AP1501-33K5A,TO-263-5	1	SA
....4	IC504	1203-002889	IC-DC/DC CONVERTER;AP1501-K5A,TO263-5L,5	1	SA
....4	T0170	1203-003059	IC-SWITCH VOL. REG.;MP1583,SOIC,8P,4.9x3	1	SA
....4	T0087	1203-003704	IC-POSI.FIXED REG.;G953-18T6U,SOT-223,3P	1	SA
....4	T0087	1203-003704	IC-POSI.FIXED REG.;G953-18T6U,SOT-223,3P	1	SA
....4	IC118	1204-002393	IC-VIDEO PROCESS;S5D2544X,TQFP,160P,28x2	1	SA
....4	IC402	1204-002419	IC-VIDEO DECODER;TW9906,TQFP,80P,12x12mm	1	SA
....4	R237	2007-000040	R-CHIP;150ohm,1%,1/10W,TP,1608	1	SA
....4	R307	2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	1	SA
....4	R108	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R109	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R110	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R111	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R114	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R202	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R230	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R231	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R232	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R233	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R234	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R235	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R248	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R262	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R271	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R272	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R273	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R274	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R275	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R301	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R302	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R303	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R304	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R316	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R317	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R318	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R319	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R320	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R321	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R322	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R323	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R324	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R325	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R354	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R355	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R362	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R363	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R364	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	R365	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R376	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R377	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R378	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R379	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R380	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R381	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R382	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R384	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R396	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R397	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R398	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R399	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R3999	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R4000	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R4011	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R4012	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R4013	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R4015	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R410	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R411	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R412	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R413	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R414	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R415	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R470	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R471	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R472	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R560	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R561	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R563	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R590	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R601	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R602	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R604	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R605	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R607	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R608	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R610	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R611	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R613	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R614	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R616	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R617	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R619	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R620	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R622	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R623	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R625	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R626	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R628	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R629	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R654	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R655	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R656	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R657	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R658	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R659	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R660	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R661	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R662	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R663	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R664	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R665	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R666	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R667	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R668	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R669	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R670	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R671	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R672	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R673	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R133	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA
....4	R134	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA
....4	R135	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	R136	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA
....4	R137	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA
....4	R138	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA
....4	R139	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA
....4	R140	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA
....4	R141	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA
....4	R142	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA
....4	R204	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA
....4	R205	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA
....4	R217	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA
....4	R236	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA
....4	R406	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA
....4	R481	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA
....4	R482	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA
....4	R483	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA
....4	R562	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA
....4	R484	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	SA
....4	R112	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R113	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R118	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R122	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R123	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R127	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R128	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R143	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R147	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R148	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R152	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R153	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R154	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R208	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R220	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R312	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R313	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R314	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R315	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R326	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R327	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R328	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R329	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R330	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R332	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R333	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R334	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R335	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R351	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R352	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R353	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R356	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R357	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R358	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R359	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R360	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R361	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R372	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R373	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R374	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R375	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R383	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R385	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R386	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R3998	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R4002	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R4003	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R4004	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R476	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R478	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R479	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R527	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R528	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R529	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R603	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R606	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R609	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R612	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	R615	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R618	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R621	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R624	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R627	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R630	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R643	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R644	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R645	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R646	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R647	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R648	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R650	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R711	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R712	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R713	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R765	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R107	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	SA
....4	R505	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	SA
....4	R119	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R120	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R124	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R125	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R129	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R130	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R201	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R215	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R216	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R238	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R239	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R249	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R250	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R251	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R260	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R261	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R263	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R513	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R515	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R573	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R674	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R675	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R676	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R677	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R678	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R679	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R680	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R681	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R682	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R683	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R684	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R685	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R686	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R687	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R688	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R689	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R690	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R691	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R692	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R693	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R694	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R695	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R696	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R697	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R631	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	SA
....4	R632	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	SA
....4	R633	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	SA
....4	R634	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	SA
....4	R635	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	SA
....4	R636	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	SA
....4	R637	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	SA
....4	R638	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	SA
....4	R639	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	SA
....4	R640	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	SA
....4	R641	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	SA
....4	R642	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	SA

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	R649	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	SA
....4	R651	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	SA
....4	R652	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	SA
....4	R653	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	SA
....4	R117	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R145	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R149	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R156	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R305	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R308	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R309	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R310	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R311	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R336	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R337	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R338	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R339	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R340	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R341	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R342	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R343	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R344	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R345	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R346	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R347	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R348	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R349	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R350	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R368	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R369	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R370	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R371	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R387	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R388	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R389	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R390	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R391	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R392	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R393	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R394	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R395	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R3997	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R4001	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R4005	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R4007	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R4008	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R514	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R526	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R764	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R116	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R121	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R126	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R131	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R155	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R206	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R331	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R3993	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R3994	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R3995	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R3996	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R473	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R480	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R507	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R541	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R550	2007-000093	R-CHIP;20Kohm,5%,1/10W,TP,1608	1	SA
....4	R572	2007-000093	R-CHIP;20Kohm,5%,1/10W,TP,1608	1	SA
....4	R509	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R551	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R570	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R367	2007-000109	R-CHIP;1Mohm,5%,1/10W,TP,1608	1	SA
....4	R402	2007-000109	R-CHIP;1Mohm,5%,1/10W,TP,1608	1	SA
....4	R222	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	SA
....4	R223	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	SA
....4	R224	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	SA
....4	R225	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	SA

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	R226	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	SA
....4	R227	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	SA
....4	R228	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	SA
....4	R229	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	SA
....4	R366	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	SA
....4	R407	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	SA
....4	R408	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	SA
....4	R212	2007-000119	R-CHIP;560ohm,5%,1/10W,TP,1608	1	SA
....4	R552	2007-000119	R-CHIP;560ohm,5%,1/10W,TP,1608	1	SA
....4	R115	2007-000124	R-CHIP;2.2Kohm,5%,1/10W,TP,1608	1	SA
....4	R508	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	SA
....4	R474	2007-000450	R-CHIP;180ohm,5%,1/10W,TP,1608	1	SA
....4	R475	2007-000450	R-CHIP;180ohm,5%,1/10W,TP,1608	1	SA
....4	R477	2007-000450	R-CHIP;180ohm,5%,1/10W,TP,1608	1	SA
....4	R3991	2007-000570	R-CHIP;220OHM,1%,1/10W,TP,1608	1	SA
....4	R3992	2007-000570	R-CHIP;220OHM,1%,1/10W,TP,1608	1	SA
....4	R542	2007-000683	R-CHIP;3.3Kohm,1%,1/10W,TP,1608	1	SA
....4	R203	2007-000821	R-CHIP;390ohm,1%,1/10W,TP,1608	1	SA
....4	R409	2007-000869	R-CHIP;4.7Kohm,1%,1/10W,TP,1608	1	SA
....4	R540	2007-000979	R-CHIP;5.6Kohm,1%,1/10W,TP,1608	1	SA
....4	R144	2007-001002	R-CHIP;510ohm,5%,1/10W,TP,1608	1	SA
....4	R104	2007-001134	R-CHIP;68ohm,5%,1/10W,TP,1608	1	SA
....4	R105	2007-001134	R-CHIP;68ohm,5%,1/10W,TP,1608	1	SA
....4	R106	2007-001134	R-CHIP;68ohm,5%,1/10W,TP,1608	1	SA
....4	R218	2007-001134	R-CHIP;68ohm,5%,1/10W,TP,1608	1	SA
....4	R219	2007-001134	R-CHIP;68ohm,5%,1/10W,TP,1608	1	SA
....4	R221	2007-001134	R-CHIP;68ohm,5%,1/10W,TP,1608	1	SA
....4	R101	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
....4	R102	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
....4	R103	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
....4	R401	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
....4	C114	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
....4	R146	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
....4	R150	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
....4	R7278	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
....4	R7279	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
....4	R7280	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
....4	RA301	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA309	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA311	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA313	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA315	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA316	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA318	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA401	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA402	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA207	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	SA
....4	RA208	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	SA
....4	RA209	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	SA
....4	RA210	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	SA
....4	RA211	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	SA
....4	RA212	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	SA
....4	RA213	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	SA
....4	RA214	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	SA
....4	RA215	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	SA
....4	RA216	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	SA
....4	RA217	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	SA
....4	C357	2203-000041	C-CER,CHIP;0.01nF,0.25pF,50V,C0G,1608	1	SA
....4	C358	2203-000041	C-CER,CHIP;0.01nF,0.25pF,50V,C0G,1608	1	SA
....4	C494	2203-000041	C-CER,CHIP;0.01nF,0.25pF,50V,C0G,1608	1	SA
....4	C495	2203-000041	C-CER,CHIP;0.01nF,0.25pF,50V,C0G,1608	1	SA
....4	C117	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C118	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C119	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C120	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C121	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C122	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C123	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C124	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C126	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C203	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C204	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C205	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C206	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C207	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	C208	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C210	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C211	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C212	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C213	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C214	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C215	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C216	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C225	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C226	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C227	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C233	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C234	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C235	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C261	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C306	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C318	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C320	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C322	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C323	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C325	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C326	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C327	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C329	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C330	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C331	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C333	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C334	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C336	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C337	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C338	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C339	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C340	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C341	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C342	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C343	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C348	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C349	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C350	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C351	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C352	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C353	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C359	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C363	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C402	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C404	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C405	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C406	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C408	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C409	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C410	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C412	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C413	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C414	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C416	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C419	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C420	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C421	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C422	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C423	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C465	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C467	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C470	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C472	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C510	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C511	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C516	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C517	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C589	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C599	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C666	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C110	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	SA
....4	C111	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	SA
....4	C542	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	SA
....4	C625	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	SA

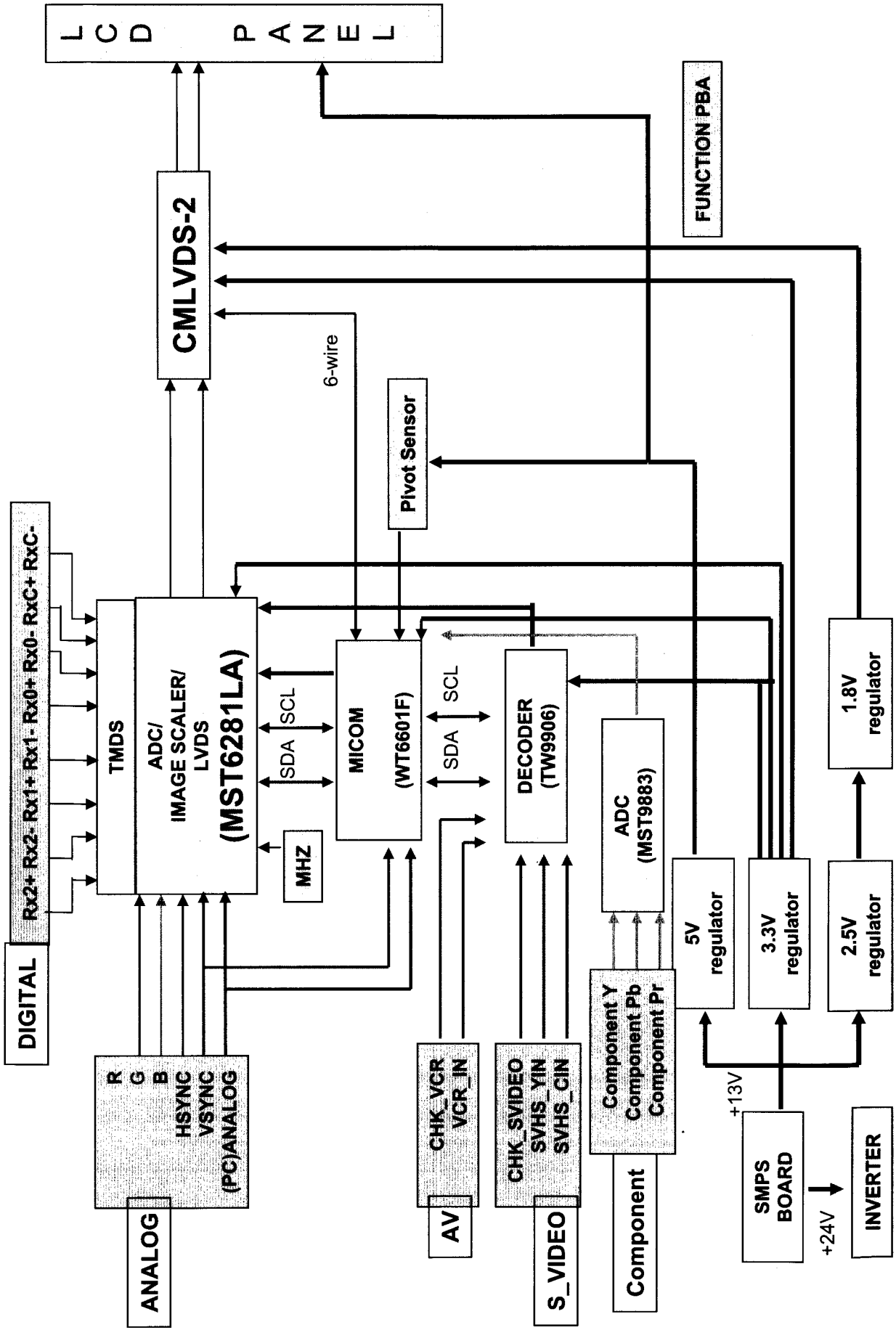
Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	C760	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	SA
....4	C217	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C218	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C219	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C220	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C221	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C222	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C223	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C228	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C229	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C230	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C231	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C232	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C302	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C304	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C314	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C315	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C316	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C354	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C355	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C356	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C360	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C361	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C531	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C532	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C540	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C571	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C573	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C626	2203-000292	C-CER,CHIP;0.01NF,5%,50V,C0G,TP,1608	1	SA
....4	C107	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C308	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C439	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C476	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C478	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C480	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C482	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C484	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C486	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C201	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	1	SA
....4	C202	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	1	SA
....4	C417	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	1	SA
....4	C418	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	1	SA
....4	C108	2203-000815	C-CER,CHIP;0.033nF,5%,50V,C0G,1608	1	SA
....4	C113	2203-000815	C-CER,CHIP;0.033nF,5%,50V,C0G,1608	1	SA
....4	C115	2203-000815	C-CER,CHIP;0.033nF,5%,50V,C0G,1608	1	SA
....4	C116	2203-000815	C-CER,CHIP;0.033nF,5%,50V,C0G,1608	1	SA
....4	C487	2203-000903	C-CER,CHIP;0.0047nF,0.25pF,50V,C0G,1608	1	SA
....4	C488	2203-000903	C-CER,CHIP;0.0047nF,0.25pF,50V,C0G,1608	1	SA
....4	C489	2203-000903	C-CER,CHIP;0.0047nF,0.25pF,50V,C0G,1608	1	SA
....4	C665	2203-000925	C-CER,CHIP;470NF,+80-20%,50V,Y5V,TP,2012	1	SA
....4	C490	2203-000972	C-CER,CHIP;47nF,10%,16V,X7R,TP,1608	1	SA
....4	C491	2203-000972	C-CER,CHIP;47nF,10%,16V,X7R,TP,1608	1	SA
....4	C492	2203-000972	C-CER,CHIP;47nF,10%,16V,X7R,TP,1608	1	SA
....4	C101	2203-000975	C-CER,CHIP;47nF,10%,25V,X7R,TP,1608,-	1	SA
....4	C102	2203-000975	C-CER,CHIP;47nF,10%,25V,X7R,TP,1608,-	1	SA
....4	C103	2203-000975	C-CER,CHIP;47nF,10%,25V,X7R,TP,1608,-	1	SA
....4	C104	2203-000975	C-CER,CHIP;47nF,10%,25V,X7R,TP,1608,-	1	SA
....4	C105	2203-000975	C-CER,CHIP;47nF,10%,25V,X7R,TP,1608,-	1	SA
....4	C106	2203-000975	C-CER,CHIP;47nF,10%,25V,X7R,TP,1608,-	1	SA
....4	C541	2203-001222	C-CER,CHIP;0.82NF,10%,50V,X7R,TP,1608	1	SA
....4	C151	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C461	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C462	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C463	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C464	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C473	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C475	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C477	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C479	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C481	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C483	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C485	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C493	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C496	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C497	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA

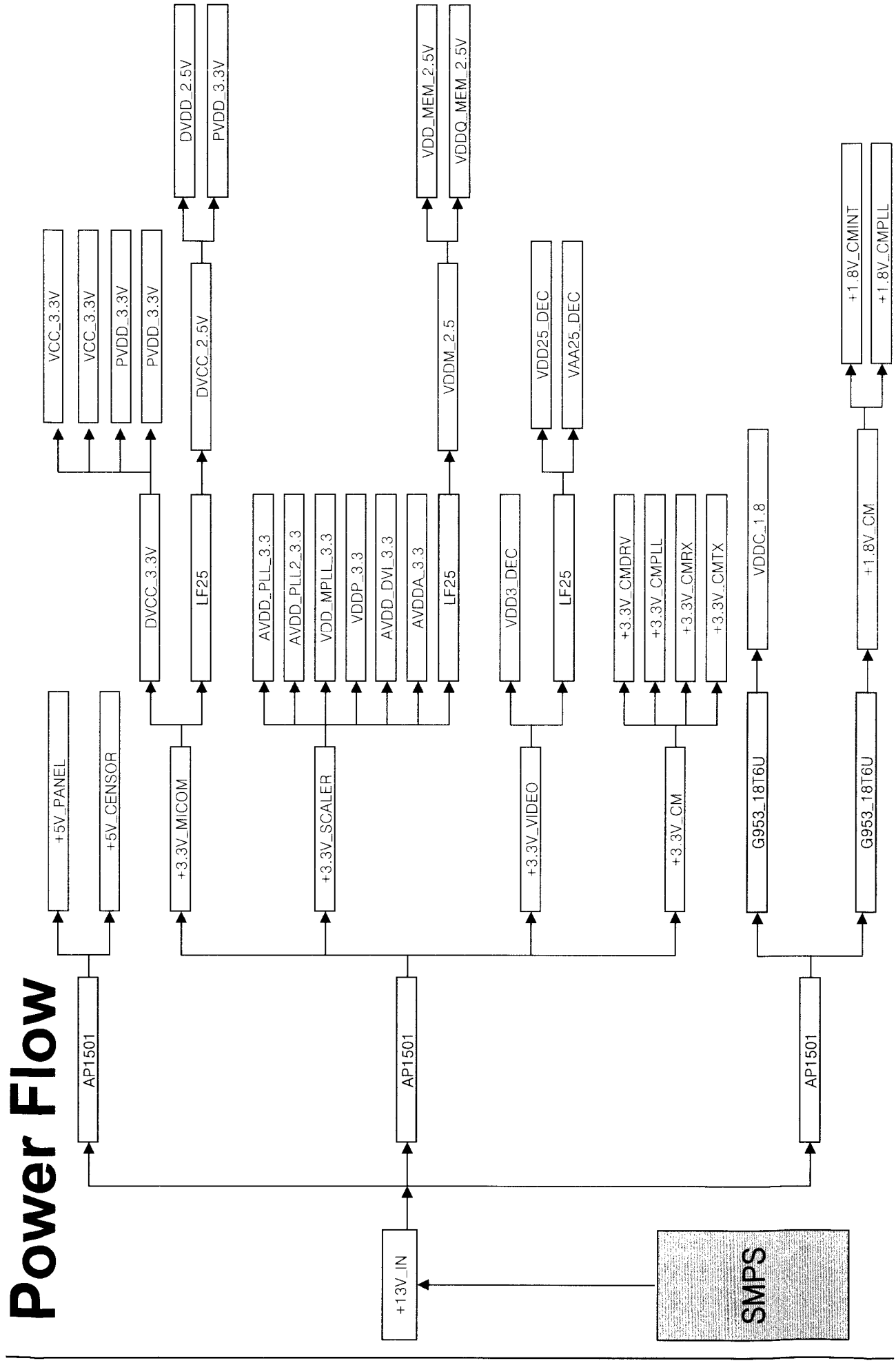
Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	C498	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C499	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C522	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C526	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C533	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C534	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C543	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C560	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C562	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C563	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C564	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C572	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C601	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C602	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C603	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C604	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C605	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C606	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C607	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C608	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C609	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C610	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C611	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C612	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C613	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C614	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C615	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C616	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C617	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C618	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C619	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C620	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C621	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C622	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C623	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C624	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C628	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C629	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C630	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C631	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C632	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C633	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C634	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C635	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C636	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C637	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C638	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C639	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C640	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C641	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C642	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C112	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	SA
....4	C236	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	SA
....4	C260	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	SA
....4	C514	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	SA
....4	C550	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	SA
....4	C570	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	SA
....4	C627	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	SA
....4	C109	2203-005194	C-CER,CHIP;0.22nF,10%,50V,X7R,1608	1	SA
....4	C561	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608,-	1	SA
....4	C591	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608,-	1	SA
....4	C592	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608,-	1	SA
....4	C593	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608,-	1	SA
....4	C595	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608,-	1	SA
....4	C596	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608,-	1	SA
....4	C237	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	SA
....4	C301	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	SA
....4	C303	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	SA
....4	C310	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	SA
....4	C311	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	SA
....4	C312	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	SA
....4	C313	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	SA
....4	C317	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	SA
....4	C319	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	SA
....4	C321	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	SA

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	C324	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	SA
....4	C328	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	SA
....4	C332	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	SA
....4	C335	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	SA
....4	C347	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	SA
....4	C362	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	SA
....4	C403	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	SA
....4	C407	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	SA
....4	C411	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	SA
....4	C415	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	SA
....4	C645	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	SA
....4	C646	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	SA
....4	C647	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	SA
....4	C648	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	SA
....4	C450	2402-000135	C-AL,SMD;22uF,20%,16V,GP,TP,5.3x5.3x5.4	1	SA
....4	C474	2402-000135	C-AL,SMD;22uF,20%,16V,GP,TP,5.3x5.3x5.4	1	SA
....4	C551	2402-001079	C-AL,SMD;100uF,20%,35V,WT,TP,10.3x10.3x1	1	SA
....4	C509	2402-001081	C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10	1	SA
....4	C518	2402-001081	C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10	1	SA
....4	C594	2402-001081	C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10	1	SA
....4	C597	2402-001081	C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10	1	SA
....4	C598	2402-001081	C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10	1	SA
....4	C125	2402-001086	C-AL,SMD;100UF,20%,16V,WT,TP,6.6X6.6X5.3	1	SA
....4	C305	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	SA
....4	C346	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	SA
....4	C401	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	SA
....4	C519	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	SA
....4	C521	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	SA
....4	C523	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	SA
....4	C525	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	SA
....4	C527	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	SA
....4	C535	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	SA
....4	C643	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	SA
....4	C644	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	SA
....4	C471	2402-001153	C-AL,SMD;100UF,20%,6.3V,WI,TP,6.3X5.8MM	1	SA
....4	C590	2402-001254	C-AL,SMD;10uF,20%,50V,WT,TP,6.3x5.2mm	1	SA
....4	C544	2409-001029	C-ORGANIC;120uF,20%,6.3V,WT,TP,10.3x10.3	1	SA
....4	C209	2409-001049	C-ORGANIC;47UF,20%,6.3V,FX,TP,5X5.9MM,-	1	SA
....4	C224	2409-001049	C-ORGANIC;47UF,20%,6.3V,FX,TP,5X5.9MM,-	1	SA
....4	C440	2409-001049	C-ORGANIC;47UF,20%,6.3V,FX,TP,5X5.9MM,-	1	SA
....4	C512	2409-001065	C-ORGANIC;82UF,20%,16V,WT,TP,8X6.9MM,-	1	SA
....4	C545	2409-001065	C-ORGANIC;82UF,20%,16V,WT,TP,8X6.9MM,-	1	SA
....4	C574	2409-001065	C-ORGANIC;82UF,20%,16V,WT,TP,8X6.9MM,-	1	SA
....4	C575	2409-001065	C-ORGANIC;82UF,20%,16V,WT,TP,8X6.9MM,-	1	SA
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	SA
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	SA
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	SA
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	SA
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	SA
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	SA
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	SA
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	SA
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	SA
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	SA
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	SA
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	SA
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	SA
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	SA
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	SA
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	SA
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	SA
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	SA
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	SA
....4	X301	2801-003326	CRYSTAL-SMD;24MHz,30ppm,28-ABX,16pF,50oh	1	SA
....4	X201	2801-003667	CRYSTAL-SMD;14.31818MHz,30ppm,28-AAN,16,	1	SA
....4	X401	2801-004222	CRYSTAL-SMD;27MHZ,30PPM,28-AAN,14PF,50OH	1	SA
....4	T0568	3301-000314	BEAD-SMD;120ohm,1.6x0.8x0.8mm,150mA,,,,4	1	SNA
....4	T0568	3301-000314	BEAD-SMD;120ohm,1.6x0.8x0.8mm,150mA,,,,4	1	SNA
....4	T0568	3301-000314	BEAD-SMD;120ohm,1.6x0.8x0.8mm,150mA,,,,4	1	SNA
....4	T0568	3301-000314	BEAD-SMD;120ohm,1.6x0.8x0.8mm,150mA,,,,4	1	SNA
....4	T0568	3301-001145	BEAD-SMD;60OHM,4516,6000,TP,70OHM/45MHZ,	1	SNA
....4	T0568	3301-001145	BEAD-SMD;60OHM,4516,6000,TP,70OHM/45MHZ,	1	SNA
....4	T0568	3301-001145	BEAD-SMD;60OHM,4516,6000,TP,70OHM/45MHZ,	1	SNA
....4	T0568	3301-001176	BEAD-SMD;80ohm,2012,400mA,TP,,,0.4ohm	1	SNA
....4	T0568	3301-001176	BEAD-SMD;80ohm,2012,400mA,TP,,,0.4ohm	1	SNA

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	T0568	3301-001176	BEAD-SMD;80ohm,2012,400mA,TP,,,0.4ohm	1	SNA
....4	T0568	3301-001176	BEAD-SMD;80ohm,2012,400mA,TP,,,0.4ohm	1	SNA
....4	T0568	3301-001793	BEAD-SMD;18ohm,1608,-,TP,11.8ohm/37.6MHz	1	SA
....4	T0568	3301-001793	BEAD-SMD;18ohm,1608,-,TP,11.8ohm/37.6MHz	1	SA
....4	T0568	3301-001793	BEAD-SMD;18ohm,1608,-,TP,11.8ohm/37.6MHz	1	SA
....4	CN301	3711-002049	HEADER-BOARD TO CABLE;BOX,6P,1R,1.25mm,S	1	SA
....4	CN601	3711-005470	HEADER-BOARD TO CABLE;BOX,30P,1R,1.25mm,	1	SA
....4	CN602	3711-005470	HEADER-BOARD TO CABLE;BOX,30P,1R,1.25mm,	1	SA
....4	CN504	3711-005471	HEADER-BOARD TO CABLE;BOX,12P,1R,1.25mm,	1	SA
....4	CN302	3711-005477	HEADER-BOARD TO CABLE;BOX,4P,1R,2mm,SMD-	1	SA
....4	CN502	3711-005543	HEADER-BOARD TO CABLE;BOX,6P,1R,1.25mm,S	1	SA
....4	L503	BN27-00002A	COIL-CHOKE(SMD);47uH,47uH,20%,12*12*8mm,	1	SA
....4	T0010	BN27-00009A	COIL CHOKE;SMD 12X12X6,EOS,33UH,15%,-,0.	1	SA
....4	T0010	BN27-00009A	COIL CHOKE;SMD 12X12X6,EOS,33UH,15%,-,0.	1	SA
....4	S301	BN32-00005A	SENSOR SW-TILT;SPSF100100,DC5V,1mA,-10 ~	1	SA
....4	IC109	1205-002768	IC-LCD CONTROLLER;SE6281LA-LF-205,LQFP,2	1	SA
....4	T0077	BN41-00659A	PCB MAIN;LS24BRBAS,FR-4,4L,MP1.0,1.6,175	1	SNA
...3	M0018	BN97-00662C	ASSY MICOM;LS24BRB*,W/W	1	SA
....4	IC115	1107-001530	IC-FLASH MEMORY;39VF080,1Mx8Bit,TSOP,40P	1	SA
...3	HDCP KEY	BN97-00707A	ASSY HDCP;BN46-00018A,BR20/21BS_CS,MSTAR	1	SNA
....4		BN46-00018A	KEY CODE-CERTIFICATE;(HDCP KEY)PPM42M5S,	1	SNA
...3	IC201_HEAT	BN62-00003A	HEAT SINK-IC;NK,SUN,A6063S,T2.5,W28,L28,	1	SNA
...3	IC601_HEAT	BN62-00003A	HEAT SINK-IC;NK,SUN,A6063S,T2.5,W28,L28,	1	SNA
..2	T0159	BN96-02723A	ASSY PCB P-SMPS;Free Voltage SMPS,LS24BR	1	SNA
1	M0112	BN91-00887G	ASSY SHIELD;LS24BRBAS/*	1	SNA
..2	CCM1	6001-000352	SCREW-MACHINE;FH,+,M3,L6,NI PLT,SWRCH18A	4	SNA
..2	M0081	6003-000337	SCREW-TAPTITE;BH,+,S,M4,L10,ZPC(BLK),SWR	4	SA
..2	M0112	BN96-02664A	ASSY SHIELD P-PCB;244T,SECC	1	SNA
1	M0019	BN92-01410H	ASSY LABEL;LS24BRBAS/XAA,UNITED STATES	1	SNA
1	M0113	BN92-01412J	ASSY P/MATERIAL;LS24BRBAS/XAA,OLD STAND	1	SNA
..2	T0376	6902-000379	BAG AIR;LDPE,T0.2,W1000,L1800,TRP,-,--	0.002	SNA
..2	T0524	6902-000584	BAG PE;HDPE/NITRON(DOUBLE),T0.015/T0.8,W	1	SNA
..2	P/M	6902-000604	BAG WRAPPING;LDPE,T0.02,W500,L10000,TRP,	2.95	SNA
..2	M0081	6902-000609	BAG ROLL;LDPE,T0.05,W2400,L1000,TRP,-,-	0.055	SNA
1	M0003	BN92-01476X	ASSY BOX;LS24BRBAS/XAA,OLD STAND	1	SNA
..2	BOX	BN69-01224A	BOX-MONITOR;LS24BR_OLD,SY-05,YEL,A-1,L67	1.02	SNA
1	M0045	BN92-01537K	ASSY ACCESSORY;LS24BRBAS/XAA,UNITED STAT	1	SNA
..2	M0114	BN39-00244B	CBF SIGNAL;MO15PS,15P/15P,20276-N,1830MM	1	SA
..2	M0125	BN39-00246F	CBF SIGNAL-DVI(D);1703FP,24P/24P,20276-D	1	SA
..2	M0045	BN96-02537K	ASSY ACCESSORY;LS24BRBAS/XAA,UNITED STAT	1	SA
...3	T0268	3903-000085	CBF-POWER CORD;DT,US,BP3/YES,I(IEC C13/C	1	SA
...3	T0524	6902-000110	BAG PE;LDPE,T0.05,W250,L400,TRP,28,2	1	SNA
...3	MP1.0	AA68-40065B	CARD-01,REGISTRATION;,SEA,A5,ENG,A/P220,	1	SNA
...3	ACCESSORY	BH68-00261F	CARD WARRANTY-03;SyncMaster14-1,ADC,MOJO	1	SNA
...3	ACCESSORY	BH68-00344C	CARD WARRANTY-01;SECA W'TY & CRM CARD,SE	1	SNA
...3	ACCESSORY	BN68-00832C	MANUAL-REGISTRATION CARD;SECA all,SAMSUN	1	SNA
...3	ACCESSORY	BN68-00832D	MANUAL-REGISTRATION CARD;SECA all,SAMSUN	1	SNA
...3	M0215	BN96-02318E	ASSY MANUAL P-IB+QSG;Brahms/244T,SyncMas	1	SNA
....4	M0808	BH68-00376L	MANUAL-04;LCDQUICK SETUP GUIDE,SYNCMASTE	1	SNA
....4	I/B	BN59-00480E	S/W DRIVER-00,IB;Brahms/244T,W/W,SyncMas	1	SNA
1	T0852	BN91-00939J	ASSY LCD-SPZ;LS24BRBAS/*	1	SNA
..2	M0215	BN07-00250A	LCD-PANEL;LTM240M1-L02-A05,NB243T,8bit,5	1	SA

7 Block Diagram




Power Flow
SMPS
+13V_IN
AP1501
AP1501
AP1501
+5V_PANEL
+5V_CENSOR
+3.3V_MICOM
+3.3V_SCALER
+3.3V_VIDEO
+3.3V_CM
G953_18T6U
G953_18T6U
VDDC_1.8
+1.8V_CM
+1.8V_CMINT
+1.8V_CMPLL
DVCC_3.3V
LF25
DVCC_2.5V
DVDD_2.5V
PVDD_3.3V
VCC_3.3V
VCC_3.3V
PVDD_3.3V
PVDD_3.3V
AVDD_PLL_3.3
AVDD_PLL2_3.3
VDD_MPLL_3.3
VDDP_3.3
AVDD_DVI_3.3
AVDDA_3.3
LF25
VDDM_2.5
VDD_MEM_2.5V
VDDQ_MEM_2.5V
VDD3_DEC
LF25
VDD25_DEC
VAA25_DEC
+3.3V_CMDRV
+3.3V_CMPLL
+3.3V_CMRX
+3.3V_CMTX

8 Wiring Diagram

CN102
To DVI
Connector

1	RX2-
2	RX2+
3	GND
4	NC
5	NC
6	SCL_DDC_D
7	SDA_DDC_D
8	NC
9	RX1-
10	RX1+
11	GND
12	NC
13	NC
14	+5V_ DDC_D
15	CHK_DVI
16	HDCP_HOTPLUG
17	RX0-
18	RX0+
19	GND
20	NC
21	NC
22	GND
23	RXC+
24	RXC-
25	GND
26	GND

CN504
To Panel
Power

1	+ 5V Panel
2	+ 5V Panel
3	+ 5V Panel
4	+ 5V Panel
5	+ 5V Panel
6	+ 5V Panel
7	GND
8	GND
9	GND
10	GND
11	GND
12	GND

CN104
To S-Video
Connector

1	GND
2	GND
3	GND
4	SVHS_YIN
5	SVHS_CIN
6	CHK_SVIDEO
7	CHK_SVIDEO (SWITCH)

CN705
To Compnent
Video Connector

1	Y
2	Pb
3	Pr

CN501
To SMPS
Board

1	GND
2	GND
3	+ 13V
4	+ 13V
5	+ 5V
6	+ 5V
7	GND
8	GND
9	GND
10	GND
11	+ 24V
12	+ 24V
13	+ 24V
14	+ 24V

CN502
To Function

1	GND
2	KEY1
3	KEY2
4	LED_GREEN
5	POWER_KEY
6	+ 3.3V_MICOM
7	GND
8	GND

CN103
To Video
Connector

1	GND
2	CHK_VCR(SWITCH)
3	VCR_IN

CN101
To Analog
Connector

1	R+ IN_A
2	G+ IN_A
3	B+ IN_A
4	NC
5	GND
6	R- IN_A
7	G- IN_A
8	B- IN_A
9	+5V_ DDC_A
10	CHK_DSUB
11	NC
12	SDA_DDC_A
13	HSYNC_IN_A
14	VSYNC_IN_A
15	SCL_DDC_A

CN503
To Inverter
Board in Panel

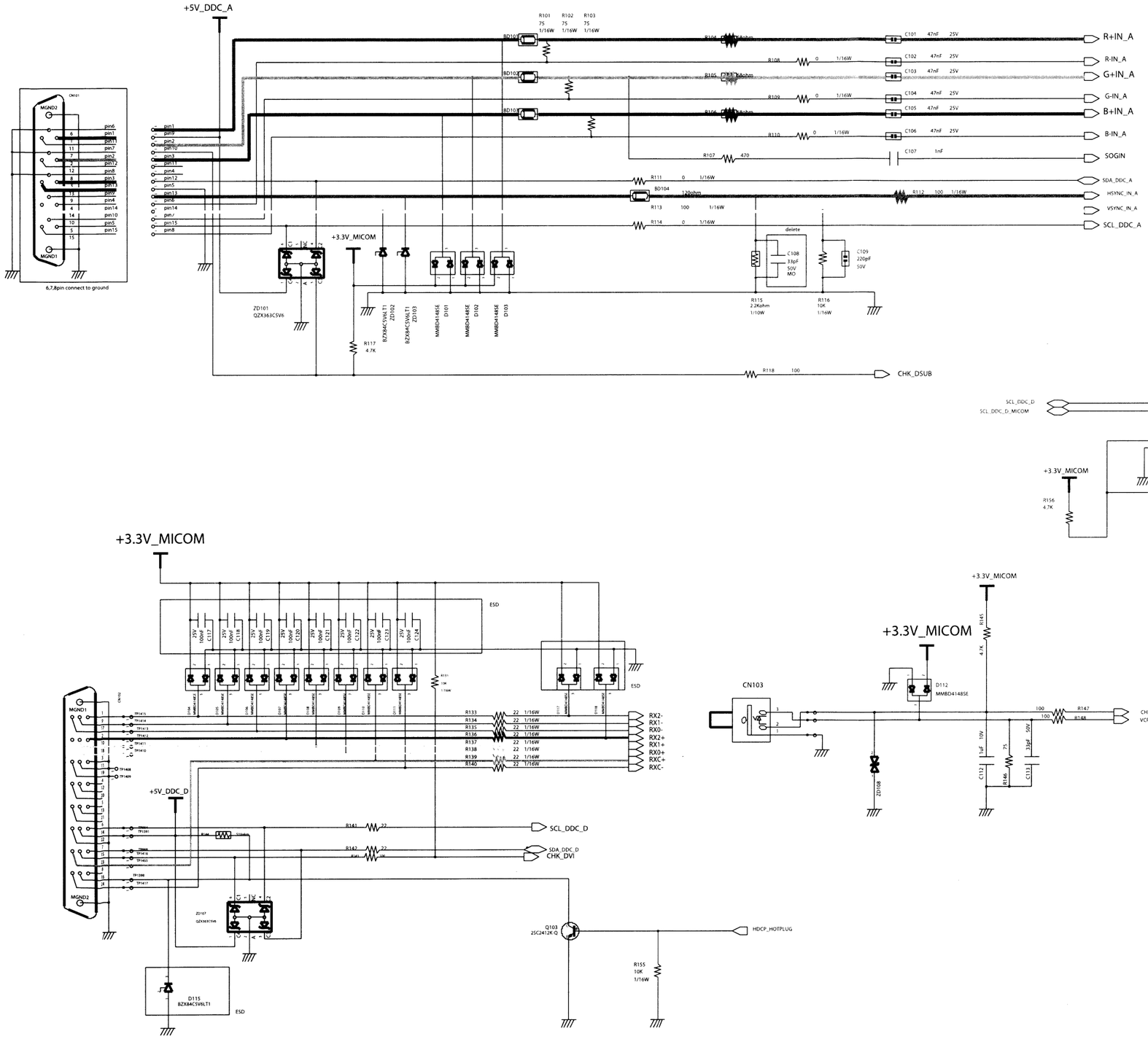
1	PWM DIM
2	BRT-CTL
3	BL-EN
4	GND
5	GND
6	GND
7	GND
8	GND
9	GND
10	+ 24V
11	+ 24V
12	+ 24V
13	+ 24V
14	+ 24V

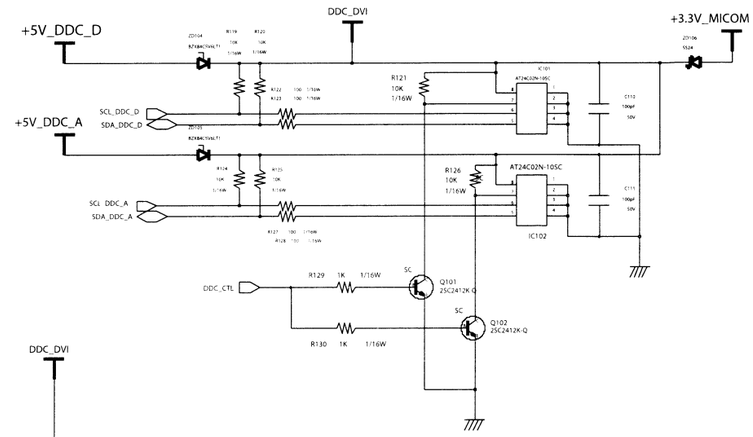
Memo

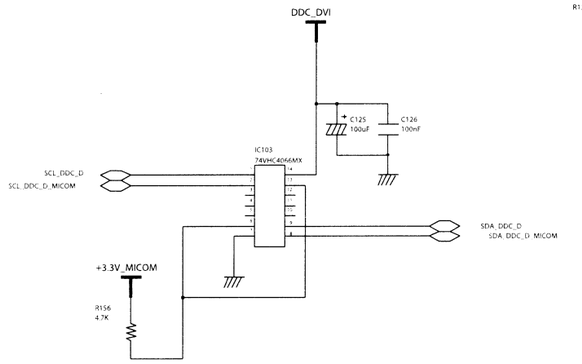
9 Schematic Diagrams

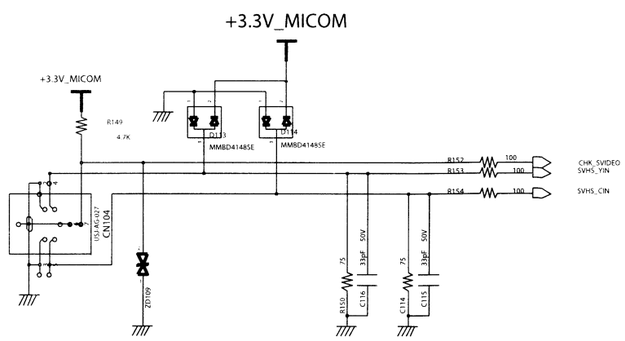
- This Document can not be used without Samsung's authorization.

9-1 Schematic Diagrams



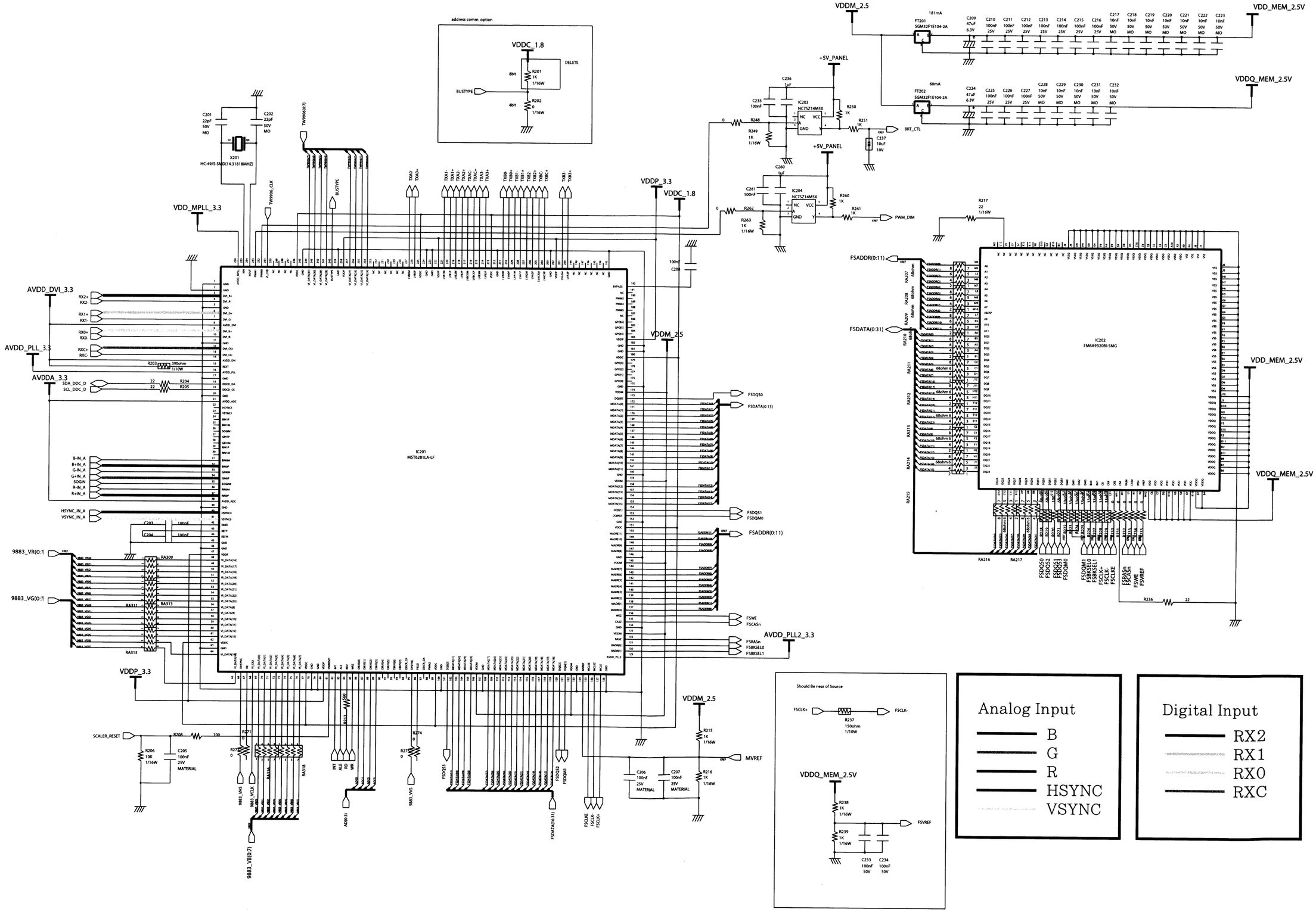




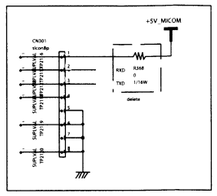


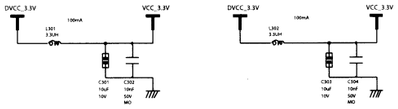
Analog Input
- R
- G
- B
- HSYNC
- VSYNC

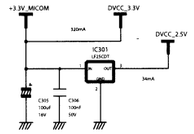
Digital Input
- RX2
- RX1
- RX0
- RXC

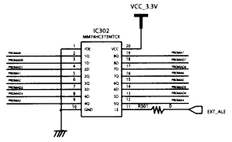

address comm. option
VDDC_1.8
DELETE
8bit
BUSTYPE
4bit
R201 1K 1/16W
R202 0 1/16W
VDDM_2.5
VDD_MEM_2.5V
VDDQ_MEM_2.5V
181mA
60mA
FT201 SGM32F1E104-2A
FT202 SGM32F1E104-2A
+5V_PANEL
IC203 NC7SZ14M5X
IC204 NC7SZ14M5X
BRT_CTL
PWM_DIM
VDDP_3.3
VDD_MPLL_3.3
AVDD_DVI_3.3
AVDD_PLL_3.3
AVDDA_3.3
AVDD_PLL2_3.3
X201 HC-49/S-SMD(14.31818MHZ)
IC201 MST6281LA-LF
IC202 EM6A9320BI-5MG
FSADDR(0:11)
FSDATA(0:31)
FSDQS0
FSDQS1
FSDQM0
FSDQM1
FSWE
FSCASn
FSRASn
FSBKSEL0
FSBKSEL1
FSCLK+
FSCLK-
FSCLKE
MVREF
FSVREF
9883_VR(0:7)
9883_VG(0:7)
9883_VB(0:7)
SCALER_RESET
B-IN_A
B+IN_A
G-IN_A
G+IN_A
SOGIN
R-IN_A
R+IN_A
HSYNC_IN_A
VSYNC_IN_A
SDA_DDC_D
SCL_DDC_D
RX2+
RX2-
RX1+
RX1-
RX0+
RX0-
RXC+
RXC-
Should Be near of Source
VDDQ_MEM_2.5V
Analog Input
B
G
R
HSYNC
VSYNC
Digital Input
RX2
RX1
RX0
RXC

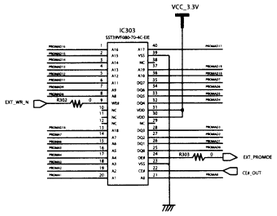
FOR TEST

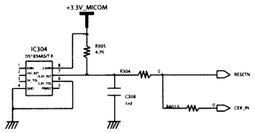


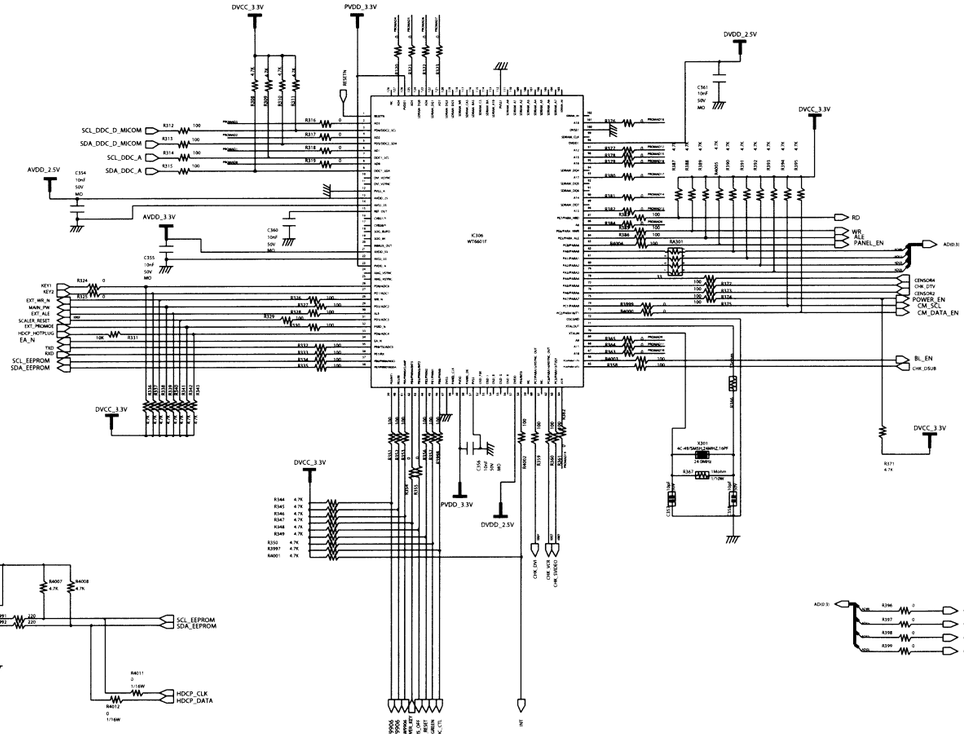


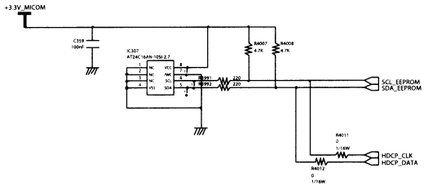


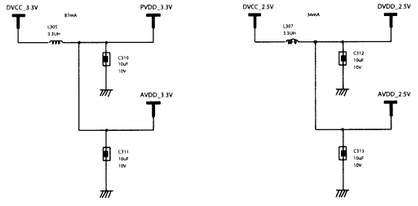


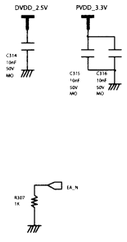


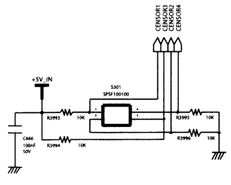




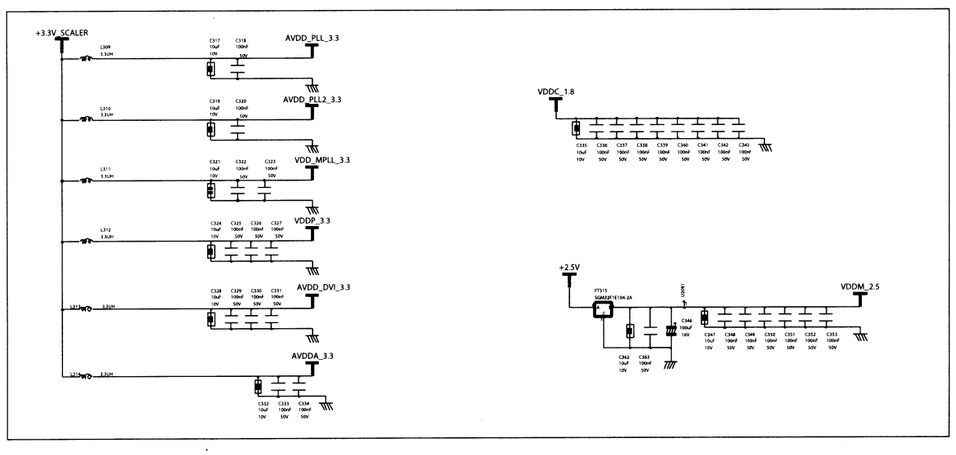




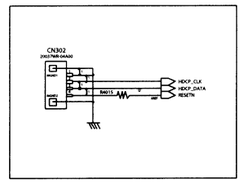


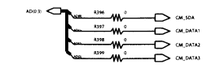


for Scaler

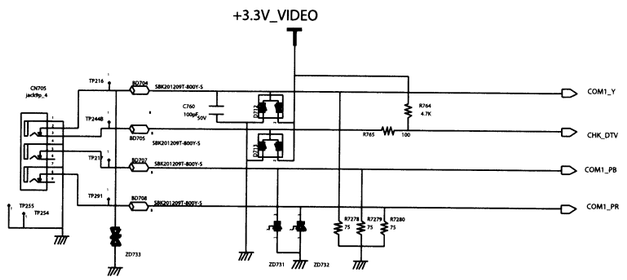


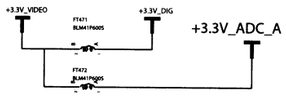
HDCP JIG

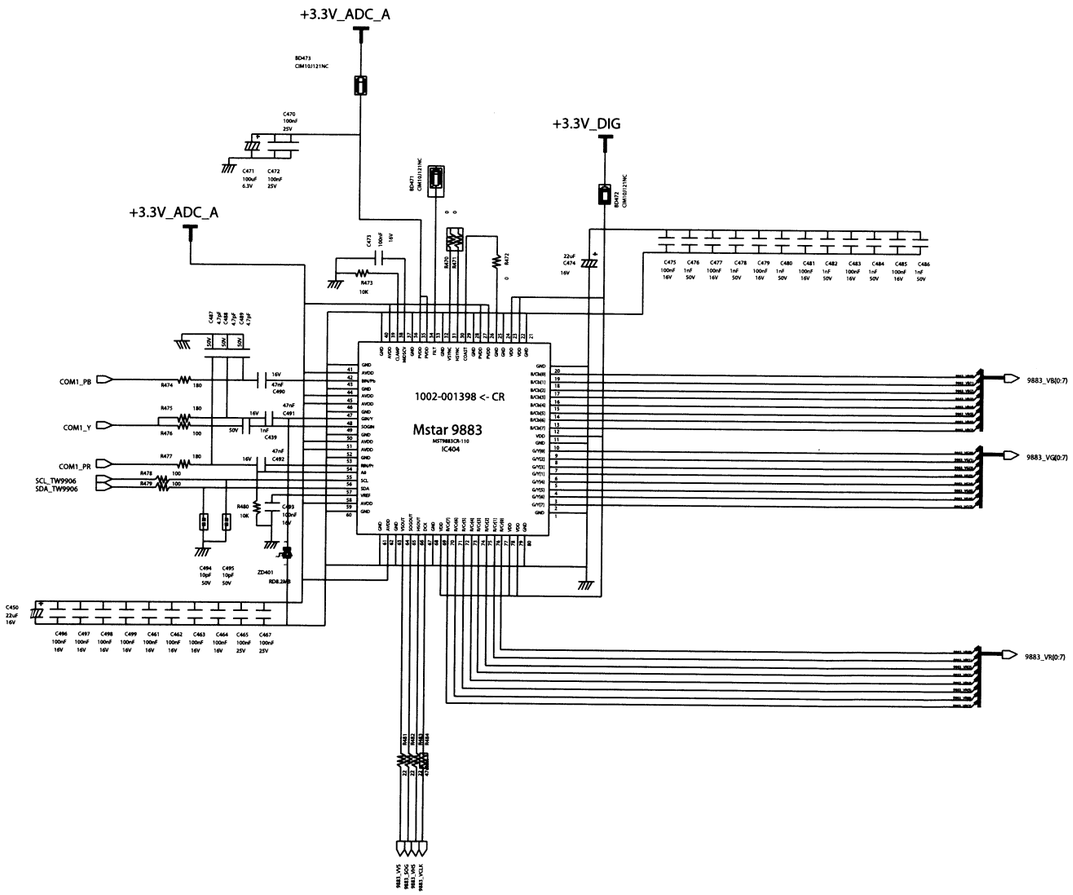


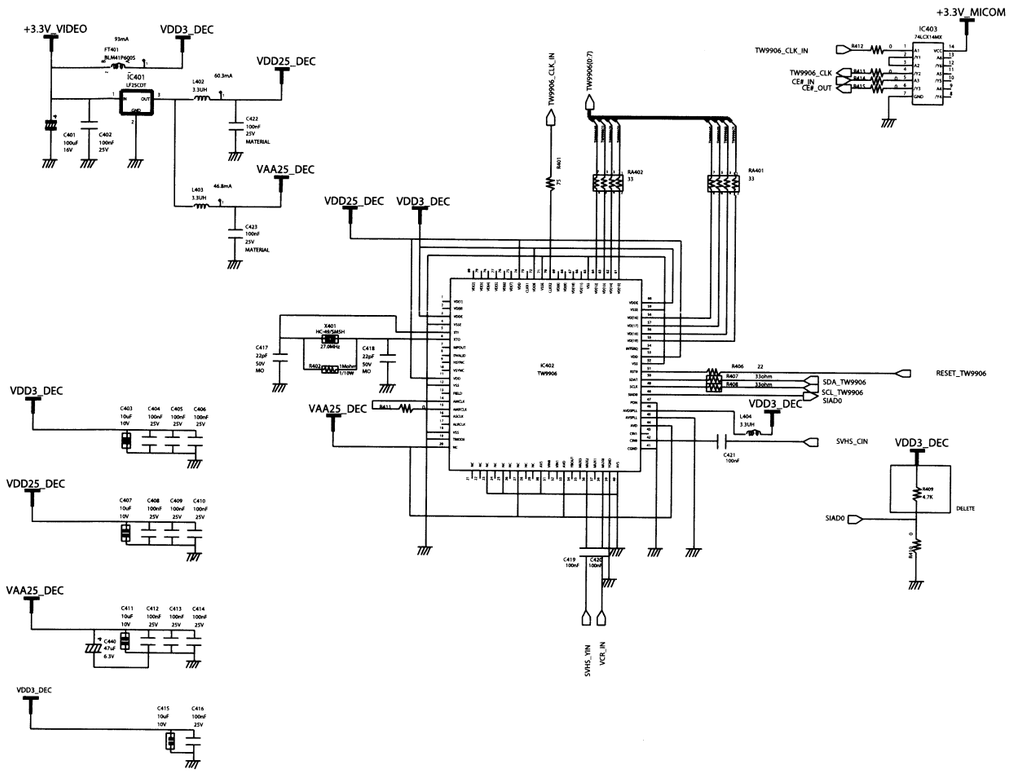


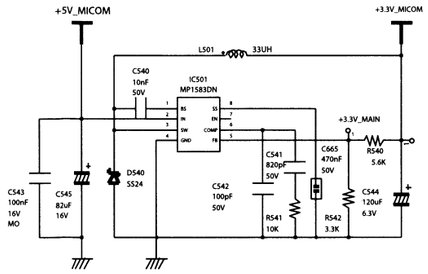
R4015
C361
IC307
X301
CN302
L315
RA301

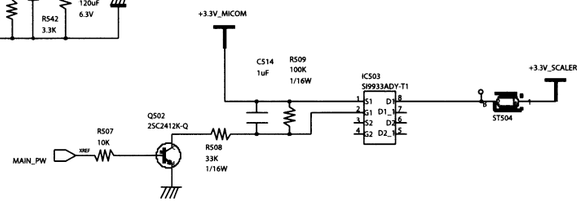

+3.3V_VIDEO
CN705
jack8p_4
TP216
TP244B
TP210
TP291
TP255
TP254
BD704
BD705
BD707
BD708
SBK2012HT-800Y-S
C760
100nF
50V
R764
4.7K
R765
100
COM1_Y
CHK_DTV
COM1_PB
COM1_PR
R778
75
R779
75
R780
75
ZD733
ZD731
ZD732

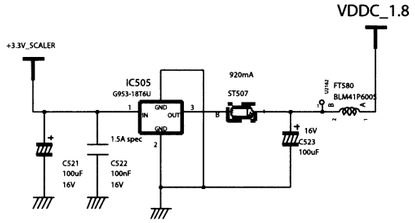

+3.3V_VIDEO
FT471
BLM41P600S
+3.3V_DIG
FT472
BLM41P600S
+3.3V_ADC_A

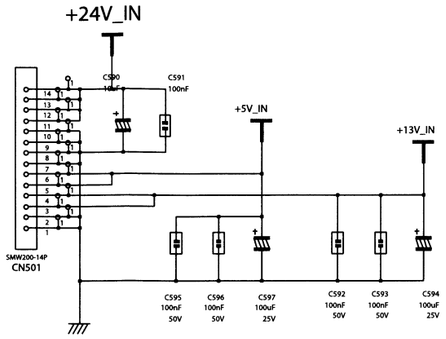

+3.3V_ADC_A
BD473
CBM1010121NC
C470
100nF
25V
C471
100nF
6.3V
C472
100nF
25V
+3.3V_DIG
BD472
CBM1010121NC
C473
100nF
16V
R471
R472
R473
10K
22uF
C474
16V
C475 C476 C477 C478 C479 C480 C481 C482 C483 C484 C485 C486
100nF 1nF 100nF 1nF 100nF 1nF 100nF 1nF 100nF 1nF 100nF 1nF
16V 50V 16V 50V 16V 50V 16V 50V 16V 50V 16V 50V
C487 C488 C489 C490
47nF
50V
COM1_PB
COM1_Y
COM1_PR
SCL_TW9906
SDA_TW9906
R474 180
R475 180
R476 100
R477 180
R478 100
R479 220
C490 47nF 16V
C491 47nF 16V
C492 47nF 16V
C493 100nF 16V
R480 10K
C494 10uF 50V
C495 10uF 50V
ZD401
1002-001398 <- CR
Mstar 9883
MST9883CR-110
IC404
9883_VB[0:7]
9883_VG[0:7]
9883_VR[0:7]
9883_VS
9883_DDC
9883_SCL
9883_SDA
9883_VCLK
C450
22uF
16V
C496 C497 C498 C499 C461 C462 C463 C464 C465 C467
100nF 100nF 100nF 100nF 100nF 100nF 100nF 100nF 100nF 100nF
16V 16V 16V 16V 16V 16V 16V 16V 25V 25V

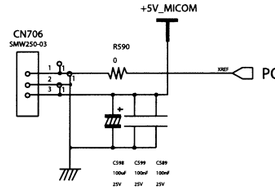

+3.3V_VIDEO
VDD3_DEC
FT401
BLM41P600S
IC401
LF25CDT
C401
100uF
16V
C402
100nF
25V
L402
3.3UH
60.3mA
C422
100nF
25V
MATERIAL
VDD25_DEC
L403
3.3UH
46.8mA
C423
100nF
25V
MATERIAL
VAA25_DEC
+3.3V_MICOM
IC403
74LCX14MX
TW9906_CLK_IN
R412
0
TW9906_CLK
CEB_IN
CEB_OUT
R411
R413
R414
R415
TW9906_CLK_IN
TW9906(0.7)
R401
1K
RA402
33
RA401
33
IC402
TW9906
RA406
22
R407
33ohm
R408
33ohm
SDA_TW9906
SCL_TW9906
SIAD0
RESET_TW9906
R413
L404
3.3UH
C421
100nF
SVHS_CIN
SVHS_YIN
VCR_IN
C403 C404 C405 C406
10uF 100nF 100nF 100nF
10V 25V 25V 25V
C407 C408 C409 C410
10uF 100nF 100nF 100nF
10V 25V 25V 25V
C411 C412 C413 C414
10uF 100nF 100nF 100nF
10V 25V 25V 25V
C440
47uF
6.3V
C415 C416
10uF 100nF
10V 25V
C417
22pF
50V
MO
C418
22pF
50V
MO
C419
100nF
C420
100nF
R409
4.7K
DELETE
SIAD0

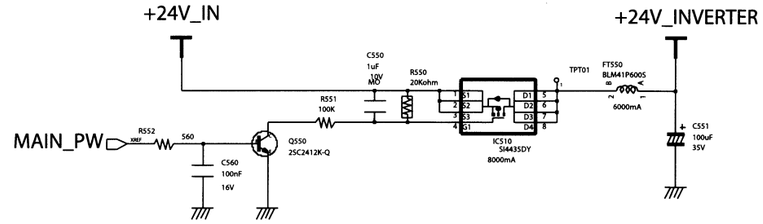

+5V_MICOM
+3.3V_MICOM
L501 33UH
C540 10nF 50V
IC501 MP1583DN
+3.3V_MAIN
C543 100nF 16V MO
C545 82uF 16V
D540 SS24
C541 820pF 50V
C542 100pF 50V
C665 470nF 50V
R540 5.6K
R541 10K
R542 3.3K
C544 120uF 6.3V

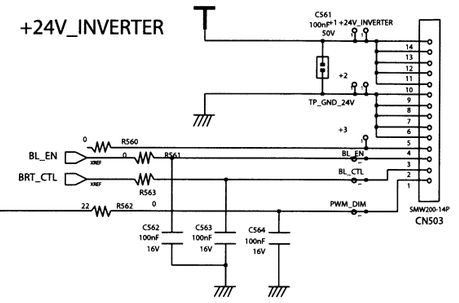

+3.3V_MICOM
C514 1uF
R509 100K 1/16W
IC503 SI9933ADY-T1
+3.3V_SCALER
ST504
Q502 2SC2412K-Q
R508 33K 1/16W
R507 10K
MAIN_PW


VDDC_1.8
+3.3V_SCALER
IC505 G953-18T6U
920mA
ST507
FT580 BLM41P600S
C521 100uF 16V
C522 100nF 16V
1.5A spec
C523 100uF 16V

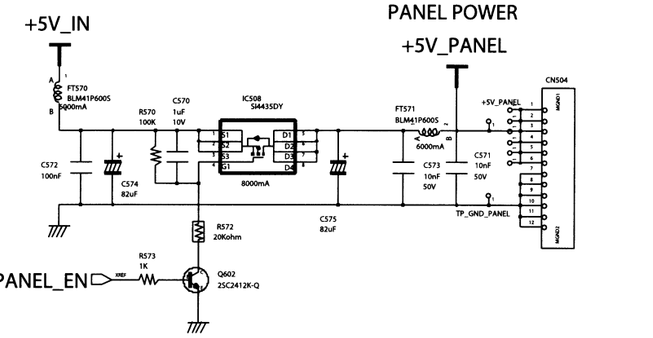

+24V_IN
C590 10uF
C591 100nF
+5V_IN
+13V_IN
SMW200-14P CN501
C595 100nF 50V
C596 100nF 50V
C597 100uF 25V
C592 100nF 50V
C593 100nF 50V
C594 100uF 25V

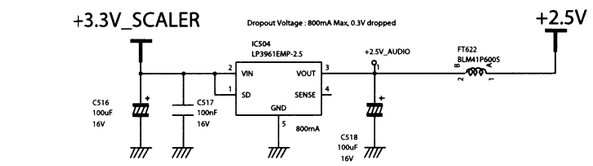

+5V_MICOM
CN706 SMW250-03
R590 0
POWER_EN
C598 100uF 25V
C599 100nF 25V
C589 100nF 25V

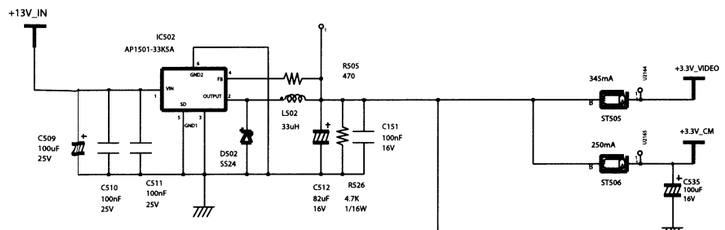

+24V_IN
+24V_INVERTER
MAIN_PW
RS52 0ΩF
560
C560 100nF 16V
Q550 2SC2412K-Q
RS51 100K
C550 1uF 10V MO
RS50 20Kohm
TPT01
FTS50 BLM41P600S
6000mA
IC510 SI4435DY
8000mA
C551 100uF 35V

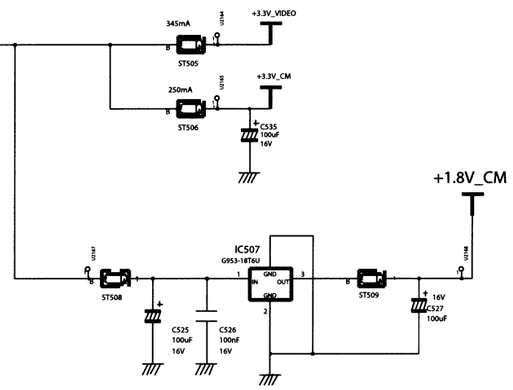

+24V_INVERTER
C561 100nF 50V
+24V_INVERTER
TP_GND_24V
BL_EN
BRT_CTL
PWM_DIM
R560
R561
R563
R562 22
C562 100nF 16V
C563 100nF 16V
C564 100nF 16V
SMW200-14P CN503

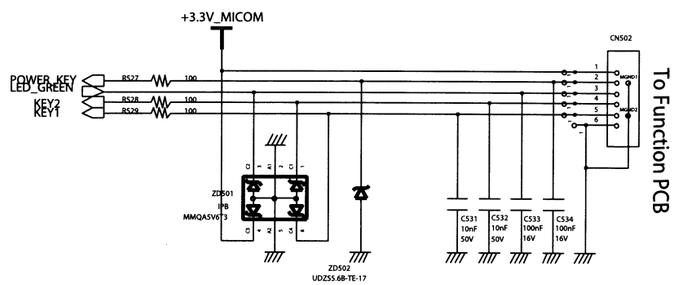
PANEL POWER


+5V_IN
+5V_PANEL
FTS70 BLM41P600S 4000mA
C570 1uF 10V
IC508 SI4435DY
FT571 BLM41P600S
6000mA
CN504
R570 100K
C572 100nF
C574 82uF
8000mA
C573 10nF 50V
C571 10nF 50V
C575 82uF
TP_GND_PANEL
R572 20Kohm
R573 1K
PANEL_EN
Q602 2SC2412K-Q


+3.3V_SCALER
Dropout Voltage : 800mA Max, 0.3V dropped
+2.5V
IC504 LP3961EMP-2.5
+2.5V_AUDIO
FT622 BLM41P600S
VIN
VOUT
SD
SENSE
GND
800mA
C516 100uF 16V
C517 100nF 16V
C518 100uF 16V


+13V_IN
IC502 AP1501-33KSA
R505 470
LS02 33uH
C509 100uF 25V
C510 100nF 25V
C511 100nF 25V
D502 SS24
C512 82uF 16V
RS26 4.7K 1/16W
C151 100nF 16V


345mA
+3.3V_VIDEO
ST505
250mA
+3.3V_CM
ST506
C535 100uF 16V
+1.8V_CM
IC507 G953-18T6U
ST508
ST509
C525 100uF 16V
C526 100nF 16V
C527 100uF 16V


+3.3V_MICOM
CN502
POWER_KEY
LED_GREEN
KEY2
KEY1
RS27 100
RS28 100
RS29 100
ZD501 MMQA5V6T3
ZD502 UDZS5.6B-TE-17
C531 10nF 50V
C532 10nF 50V
C533 100nF 16V
C534 100nF 16V
To Function PCB

+1.8V_CM
+1.8V_CMINT
580mA
C643 100uF 16V
+1.8V_CMPLL
128mA
C644 100uF 16V
+3.3V_CM
+3.3V_CMDRV
ST603
99mA
C645 10uF 10V
+3.3V_CMPLL
8mA
C647 10uF 10V
+3.3V_CMRX
ST604
13mA
C646 10uF 10V
+3.3V_CMTX
36mA
C648 10uF 10V
+3.3V_CMRX
C601 100nF 16V MO
C602 100nF 16V MO
C603 100nF 16V MO
C604 100nF 16V MO
C605 100nF 16V MO
C606 100nF 16V MO
+1.8V_CMINT
C607 100nF 16V MO
+3.3V_CMDRV
C608 100nF 16V MO
C609 100nF 16V MO
C610 100nF 16V MO
C611 100nF 16V MO
C612 100nF 16V MO
C613 100nF 16V MO
C614 100nF 16V MO
C615 100nF 16V MO
+3.3V_CMDRV
C635 100nF 16V MO
C636 100nF 16V MO
+1.8V_CMINT
C637 100nF 16V MO
C638 100nF 16V MO
+3.3V_CMTX
C639 100nF 16V MO
C640 100nF 16V MO
C641 100nF 16V MO
C642 100nF 16V MO
CN601
TXA0-
TXA0+
TXA1-
TXA1+
TXA2-
TXA2+
TXAC-
TXAC+
TXA3-
TXA3+
TXB0-
TXB0+
TXB1-
TXB1+
TXB2-
TXB2+
TXBC-
TXBC+
TXB3-
TXB3+
R601 R602 R604 R605 R607 R608
R610 R611 R613 R614
R616 R617 R619 R620 R622 R623
R625 R626 R628 R629
R603 R606 R609 R612 R615 R618 R621 R624 R627 R630 100
delete
IC601
SSD2144x
DEN HSN VSN CHN
Y0 Y1 Y2 Y3
Y4 Y5 Y6 Y7
YO0 YO1 YO2 YO3
YO4 YO5 YO6 YO7
CKOUT VSOUT HSOUT DEOUT
R634 R635 R636 R637 R638 R639
R640 R641 R642 R643 R644 R645 R646 R647 R648
C616 100nF 16V MO
+3.3V_CMPLL
+1.8V_CMINT
C617 100nF 16V MO
C618 100nF 16V MO
C619 100nF 16V MO
C620 100nF 16V MO
C621 100nF 16V MO
C622 100nF 16V MO
C625 100nF 50V MO
C626 10nF 50V MO
DELETE
+1.8V_CMPLL
+3.3V_CMDRV
C623 100nF 16V MO
C624 100nF 16V MO
GPIO3 GPIO2 GPIO1 GPIO0
CM_DATA_EN CM_SCL CM_DATA3 CM_DATA2 CM_DATA1 CM_SDA
+3.3V_CMDRV
+3.3V_CMDRV
DELETE
R651 3.3K
DELETE
C627 1uF 10V
R649 3.3K
R650 100
MIFSEL CM_RESET
+1.8V_CMINT
+3.3V_CMDRV
C631 100nF 16V MO
C632 100nF 16V MO
C633 100nF 16V MO
C634 100nF 16V MO
+1.8V_CMINT
C628 100nF 16V MO
C629 100nF 16V MO
C630 100nF 16V MO
+3.3V_CMDRV
R652 3.3K
6-wire comm.
R653 3.3K
I2C comm.
R697
C648
ST604
CN602
IC601
RXO0-
RXO0+
RXO1-
RXO1+
RXO2-
RXO2+
RXOC-
RXOC+
RXO3-
RXO3+
RXE0-
RXE0+
RXE1-
RXE1+
RXE2-
RXE2+
RXEC-
RXEC+
RXE3-
RXE3+
R654 R655 R656 R657 R658 R659
R660 R661 R662 R663 R664 R665
R666 R667
R668 R669 R670 R671 R672 R673
BD400 CIM10J121NC
R8079 43ohm 1/10W
CN602
U2108 U2109 U2110 U2111 U2118 T325 T326 T327 T328 T329 T330 U2119 U2120 U2121 U2122 U2123 U2124 U2125 U2126 U2127 U2128 U2129 U2130 U2131 U2134 U2135 U2136 U2132 U2133 U2137